EXHIBIT D

Page 1 IN THE UNITED STATES DISTRICT COURT OF THE SOUTHERN DISTRICT OF WEST VIRGINIA CHARLESTON DIVISION IN RE: ETHICON, INC., PELVIC) REPAIR SYSTEM PRODUCTS) Master File No. LIABILITY LITIGATION) 2:12-MD-02327 -----) MDL 2327 THIS DOCUMENT RELATES TO THE FOLLOWING CASES IN WAVE 1 OF MDL 200: MARGARET J. STUBBLEFIELD) Civil Action No. Plaintiff,) 2:12-cv-00842 vs. ETHICON, INC., ET AL. Defendant.) --- This is the Deposition of VLADIMIR IAKOVLEV, M.D., taken at The Westin Harbour Castle, 1 Harbour Square, Toronto, Ontario, on the 21st day of March, 2016. REPORTED BY: TERRY WOOD, RPR, CSR

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                                                                                               Lois Hoy, et al.
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                                                                                               Civil Action No. 2:12-cv-00876 )
Constance Daino, et al. )
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       Patricia Ruiz
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       Carol Jean Dimock
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                                                                                                 APPEARANCES:
       v. Ethicon, Inc., et al.
       Civil Action No. 2:12-cv-00401)
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                                                                                                 FOR THE PLAINTIFF AND THE WITNESS:
       Ana Ruebel
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                                                                                                 ANDERSON LAW OFFICES, LLC
      v. Ethicon, Inc., et al. )
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                                                                                                 CHRISTOPHER J. ZIMMERMAN, ESO.
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       Jackie Frye
                                                                                                 1360 West 9th Street, Suite 215
       v Ethicon Inc. et al.
       Civil Action No. 2:12-cv-1004 )
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                                                                                                 Cleveland, Ohio 44113
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                                                                                                 Tel. 216.589.0256
      v. Ethicon, Inc., et al. )
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                                                                                                 Email: christopher@andersonlawoffices.net
       Sharon Boggs, et al.
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       v. Ethicon, Inc., et al.
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       Civil Action No. 2:12-cv-00368)
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                                                                                                 FOR THE DEFENDANT:
       Dina Destefano-Raston, et al. )
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                                                                                                 BUTLER SNOW LLP LLC
        . Ethicon, Inc., et al.
       Civil Action No. 2;12-cv-01299)
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                                                                                                 M. ANDREW SNOWDEN, ESQ.
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                                                                                                 150 3rd Avenue South, Suite 1600
13
       Teresa Georgilakis, et al.
      v. Ethicon, Inc., et al. )
Civil Action No. 2:12-cv-00829)
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                                                                                                 Nashville, TN 37201
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                                                                                                 Tel. 615.651.6760
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Civil Action No. 2:12-cv-01011)
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                                                                                                 Email: andy.snowden@butlersnow.com
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17
       Nancy Hooper, et al.
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       Cindy Smith
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1	INDEX OF WITNESSES	1	Upon commencing at 8:10 p.m.
2	WITNESS. PAGE	2	
3	VLADIMIR IAKOVLEV, MD, affirmed	3	(WHEREUPON, the witness was duly affirmed.)
4	Examination by Mr. Snowden 8	4	, , ,
5	Examination by Mr. Zimmerman 102	5	VLADIMIR IAKOVLEV, M.D.,
6		6	called as a witness herein,
7		7	having been first duly affirmed,
8		8	was examined and testified as follows:
9		9	EXAMINATION
10		10	BY MR. SNOWDEN:
11		11	Q. Good evening, Dr. Iakovlev.
12		12	A. Good evening.
13		13	Q. We are here to talk about the
14		14	Margaret Stubblefield case; is that your understanding?
15		15	A. I do.
16		16	EXHIBIT NO. 1: Expert report
17		17	BY MR. SNOWDEN:
18		18	Q. I'm handing you what has been
19		19	marked as Stubblefield one. Could you take a look and
20		20	let me know if this is your complete case-specific
21		21	expert report in this case.
21		22	• •
			A. Yes, it appears to be complete.
23		23	Q. How much time did you spend
24		24	preparing your opinions in this case?
	Page 7		Page 9
1	LIST OF EXHIBITS	1	A. As for other cases, can give you an
2	EXHIBIT NO./DESCRIPTION Page	2	estimate only because I have not completed billing for
3	1 Expert report 8	3	this case. Ballpark would be probably just over 20
4	2 Flash drive 9	4	hours, not more than 30 hours.
5	3 Operative note, 02/04/05 11	5	Q. Okay. And I've been handed what I
6	4 Surgical Pathology Final Report, reported 55	6	have now marked as Stubblefield 2. It's a flash drive.
7	9/28/2009	7	EXHIBIT NO. 2: Flash drive
8	5 Operative report 2007/01/04 57	8	BY MR. SNOWDEN:
9	6 Surgical Pathology Report reported on 82	9	Q. Does this flash drive contain all
10	2007/01/10	10	of the case-specific materials you reviewed in this
11	7 Progress Notes, dated 3/18/05 to 7/8/05 88	11	case with the exception, of course, of the specimen
12	8 Urology Gynecology Operative Report 95	12	itself?
13	2009/09/23	13	A. It should.
14		14	Q. And sorry, strike that.
15		15	When I look at your report in this case
16		16	starting on page 11 and then through 13, it looks like
17		17	you've headings in your clinico-pathologic correlation
18		18	for erosion, pain and polypropylene degradation; is
19		19	that right?
20		20	A. That's correct.
21		21	Q. In coming to an opinion regarding
22		22	pain symptomatology, is your opinion necessarily
23		23	dependent on the patient's complaints of pain?
24		24	MR. ZIMMERMAN: Objection. Answer if

3 (Pages 6 to 9)

	Page 10		Page 12
1	you can.	1	anterior colporrhaphy with synthetic sling.
2	THE DEPONENT: Well pain has to be	2	Q. In this case did Ms. Stubblefield
3	voiced by the patient, either without examination or	3	undergo two procedures both on the anterior vaginal
4	pain on examination, but patient has to indicate	4	wall?
5	somehow that she is feeling pain.	5	A. Yes.
6	Otherwise there wouldn't be no well,	6	Q. Okay. Do you know where, in
7	I mean, you probably can if patient cannot speak,	7	relation to one another, an anterior colporrhaphy is
8	you probably see face reaction and emotions indicating	8	performed versus the synthetic sling that was implanted
9	that somebody is in pain. That's another way of but	9	on February 4, 2005?
	still, something is indicated by the patient that she	10	-
10		l .	A. Well colporrhaphy is along the
11	feels pain.	11	sagittal plane. The sling is in the frontal plane, so
12	BY MR. SNOWDEN:	12	they are, to a degree, perpendicular to each other.
13	Q. Okay. So implicit in your opinion	13	Q. Do they overlap?
14	then would be that the an assumption that the	14	A. And colporrhaphy is more higher up,
15	plaintiff's complaints are accurate; is that fair?	15	proximal where the sling is placed more closer to the
16	MR. ZIMMERMAN: Objection, form. Go	16	enterocele.
17	ahead, answer it you can.	17	Q. Do any portions of those procedures
18	THE DEPONENT: I can only see what is in	18	overlap?
19	the records because I cannot take the history from the	19	A. They may but I would defer this to
20	patient. I'm not urogynecologist, cannot examine to	20	implanting surgeon.
21	identify tenderness in some areas.	21	Q. Okay. If we look in the body of
22	So I can be as accurate as the records	22	the report, beginning it says description of
23	are.	23	operation, and if we go the fifth line down, it
24		24	reads:
	Dama 11		
	Page 11		Page 13
1	BY MR. SNOWDEN:	1	Page 13 "A transverse incision was made
1 2		1 2	
	BY MR. SNOWDEN: Q. Okay. On page 2 of your expert		"A transverse incision was made
2	BY MR. SNOWDEN: Q. Okay. On page 2 of your expert report under urogynecologist history, you have entry	2	"A transverse incision was made across the body of the cystocele and
2	BY MR. SNOWDEN: Q. Okay. On page 2 of your expert	2	"A transverse incision was made across the body of the cystocele and mucosa was retracted laterally."
2 3 4	BY MR. SNOWDEN: Q. Okay. On page 2 of your expert report under urogynecologist history, you have entry for hysterectomy. Do you see that? A. I do.	2 3 4	"A transverse incision was made across the body of the cystocele and mucosa was retracted laterally." Do you see that?
2 3 4 5	BY MR. SNOWDEN: Q. Okay. On page 2 of your expert report under urogynecologist history, you have entry for hysterectomy. Do you see that?	2 3 4 5	"A transverse incision was made across the body of the cystocele and mucosa was retracted laterally." Do you see that? A. Yes, I do.
2 3 4 5 6	BY MR. SNOWDEN: Q. Okay. On page 2 of your expert report under urogynecologist history, you have entry for hysterectomy. Do you see that? A. I do. Q. Do you know what type of hysterectomy Ms. Stubblefield had?	2 3 4 5 6	"A transverse incision was made across the body of the cystocele and mucosa was retracted laterally." Do you see that? A. Yes, I do. Q. "Sharp and blunt dissection was used to isolate and develop the underlying cystocele."
2 3 4 5 6 7	BY MR. SNOWDEN: Q. Okay. On page 2 of your expert report under urogynecologist history, you have entry for hysterectomy. Do you see that? A. I do. Q. Do you know what type of	2 3 4 5 6 7	"A transverse incision was made across the body of the cystocele and mucosa was retracted laterally." Do you see that? A. Yes, I do. Q. "Sharp and blunt dissection was
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2 3 4 5 6 7 8 9 10 11 12 13	BY MR. SNOWDEN: Q. Okay. On page 2 of your expert report under urogynecologist history, you have entry for hysterectomy. Do you see that? A. I do. Q. Do you know what type of hysterectomy Ms. Stubblefield had? A. I don't remember now, but if you show me the record I would be able to tell you. Q. Does it have any bearing on your opinion whether she had a vaginal hysterectomy or abdomen hysterectomy? A. Not really. It would matter for	2 3 4 5 6 7 8 9 10 11	"A transverse incision was made across the body of the cystocele and mucosa was retracted laterally." Do you see that? A. Yes, I do. Q. "Sharp and blunt dissection was used to isolate and develop the underlying cystocele." Do you see that? A. I do. Q. Would that sort of dissection result in scarring on the interior vaginal wall? A. After the if the mesh was not placed and if mucosa would be placed back and sutured,
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. SNOWDEN: Q. Okay. On page 2 of your expert report under urogynecologist history, you have entry for hysterectomy. Do you see that? A. I do. Q. Do you know what type of hysterectomy Ms. Stubblefield had? A. I don't remember now, but if you show me the record I would be able to tell you. Q. Does it have any bearing on your opinion whether she had a vaginal hysterectomy or abdomen hysterectomy? A. Not really. It would matter for clinicians who is doing clinical differential diagnosis. I am not doing clinical differential diagnosis. I'm reliant on the clinicians who work up the patient and make a decision to excise the mesh. EXHIBIT NO. 3: Operative note, 02/04/05 BY MR. SNOWDEN: Q. I'm handing you what's marked as	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	"A transverse incision was made across the body of the cystocele and mucosa was retracted laterally." Do you see that? A. Yes, I do. Q. "Sharp and blunt dissection was used to isolate and develop the underlying cystocele." Do you see that? A. I do. Q. Would that sort of dissection result in scarring on the interior vaginal wall? A. After the if the mesh was not placed and if mucosa would be placed back and sutured, there would be some scar. The amount of scarring will be much smaller than what we see around the foreign object. Because if it heals with first intention, if there is no infection or any other complicating factors, there will be minimal scar, really thin, which will remodel and then some part of it will disappear with time.
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Page 14 Page 16 large pores fitting in the width of the sling. 1 a healing. That's why we call it secondary intention 1 2 when the wound is open and then it heals up with 2 Q. The specimen that you've drawn on 3 3 granulation tissue and so forth. the gross photo on page 15 was that the full width of 4 4 So in this case, scarring which we see the sling or had portion of it been excised prior to 5 5 is actually related to the mesh, because there was 6 6 foreign object in the wound and all that space had to A. My understanding is it's full 7 7 be filled with granulation tissue. width. 8 Q. What -- and if we just continue 8 There's a scale underneath it and the 9 reading it says: 9 scale is in centimeters. So we can see that the width 10 10 is approximately seven, up to 7 millimeters. So this "When this was accomplished, the sling would indicate that the sling contracted to 7 11 was placed at the midurethral area. 11 12 12 millimeters from half an inch. The sling was composed of a piece of 13 13 soft Prolene mesh 6 inches by 1/2 inch." Q. And the basis of your opinion is 14 Do you see that? 14 the measurement of the tissue here on page 15? 15 15 A. I do. A. The comparison of what width of the 16 O. Is it your understanding that the 16 sling is during excision and what is the description, 17 surgeon had to cut a piece of Prolene soft mesh to get 17 unless half inch description in the operative report is 18 18 that shape? not accurate. But we all know that all meshes contract 19 A. That's my understanding. That's 19 so there was some degree of contraction. 20 20 what I can see indirectly. Q. In this case are you able to 21 Q. And do you know how many pores, 21 quantify the degree of contraction? 22 22 full pores across the width of that mesh there A. Well we can estimate it, so if it 23 23 would be when it's cut into a half inch strip? is half inch, which is approximately 1 or 11 24 A. Let's have a look at the gross 24 millimeters I think over -- and if the width is Page 15 Page 17 1 photograph, page 15 of my report. 1 approximately 7 millimeters -- so the contraction is in 2 So if you talk about larger pores, not 2 the ballpark of 35 percent of the width. 3 3 the small pores which are in the weave pattern in the The width could have been reduced due to 4 wool of the larger pores -- was that your question? 4 the stretching towards lateral directions during the 5 5 Q. Yeah, so if it's a rectangle, which surgery so half inch when it was cut out, but there 6 you'd agree six inches by a half inch is a rectangle? 6 could be some narrowing during the procedure when it 7 7 A. No, I understand that completely. was placed. And then that narrowing was further 8 8 So I can show you the larger pores and the smaller contracted and the dimension, the width further was 9 pores of the mesh which was used. 9 reduced due to contraction of scar contraction. 10 Q. Okay. And in the -- I'm talking 10 Q. So would you agree that this mesh 11 11 about the half inch dimension so across the short was placed under the midurethra under tension? 12 dimension of the sling, perpendicular to it, how many 12 A. I don't know. We have to ask the 13 13 pores across would that be? implanting surgeon. 14 14 A. So I can tell you exactly how many Q. And if we look at his note, it 15 pores were in the sling. On page 15 there's a gross 15 says, "The suspension sutures on the sling were tied 16 photograph, and you can see clearly the pores, larger 16 with appropriate tension." Do you see that? Seven 17 pores and the smaller pores. Because there are smaller 17 lines up from the bottom? 18 pores -- I'll use red marker so we can see. 18 A. Yes, I do. 19 19 So there are smaller pores which are Q. Okay. So at least from this record 20 formed by complex weave pattern, and then there will be 20 we see that the surgeon is noting tension is being 21 larger pores which are formed by this complex weaving 21 placed on this mesh? 22 pattern. And you can actually follow and see how many 22 A. That's what the record says. 23 large pores fit in the sling. 23 Q. Okay. And you haven't reviewed his 24 24 In this case, it was approximately three deposition transcript or any treater's deposition

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Page 18 Page 20 excision in 2007. So what I see is only what was in 1 transcript in this case, correct? 1 2 2 the remaining mesh or what I can describe. A. No, I have not. 3 3 Q. Okay. Still looking at Exhibit 3 Q. Didn't you know -- if you were 4 here, is it your understanding that the suspension 4 done. 5 5 sutures used in this case were passed suprapubically? A. I'm just -- I have to see what was 6 6 A. I'm not urogynecologist and I'm not your question. 7 7 doing this procedures, and this procedure is somewhat Q. My question is whether the curling 8 different that I have seen before. So I would have to that you saw in the mesh was significant to your 9 9 defer all the specifics to the implanting surgeon. opinion in the case. 10 10 Q. You are not going to offer any A. Okay. I drifted away. 11 opinions in this case about the technique of 11 MR. ZIMMERMAN: It's a good thing it's 12 12 here. It just might be a different question. implantation? 13 13 BY MR. SNOWDEN: A. No. 14 14 Q. Are you going to offer any opinions Q. I don't know whose question you are 15 in this case regarding whether the mesh was flat when 15 answering. 16 implanted? 16 A. In this case, the formation of the 17 17 A. Well this portion of the mesh came mesh certainly doesn't help, but is not the main 18 18 driving factor. The formation of the mesh is more of a out flat. It's not folded. 19 Q. Do you any opinions in this case 19 larger contributing factor when there is a bulky 20 structure or when there are multiple nerves involved in 20 regarding deformation of mesh? 21 A. What curled was the lateral ends, 21 the, in the folded or curled mesh or when curling of 22 22 not the mid-portion. the sling occurs under the urethra and when the area of 23 23 So the middle portion was relatively pressure is reduced so it can cut deeper in the tissue. 24 flat, and then the lateral ends were somewhat 24 So this, these are examples when curling or deformation Page 19 Page 21 1 distorted, curled or folded longitudinally along the 1 of folding play greater role in the complications. 2 length. 2 In this specific case it's not as 3 3 Q. Are you able to say to a reasonable permanent, and it's not as significant. 4 degree of medical certainty whether that folding 4 Q. Okay. You mentioned two answers 5 5 occurred in vivo or at the time of placement? ago or one answer ago about the fact that there was a 6 6 A. I cannot. prior explant, so what you received in this case was a 7 7 Q. And what portion -- if you can portion of the mesh that was implanted. 8 8 quantify for us, what portion of the mesh that was Are you able -- based on that, are you 9 removed had curling? 9 able to tell whether the mesh contracted as we just 10 A. Lateral ends. 10 talked about a moment ago? Because I believe -- this a 11 11 Q. Okay. long wind up -- I believe when you previously said that 12 A. And I described it as lateral ends. 12 you could look at this mesh and see how much it had 13 13 Q. So if we are talking about the contracted because it was the full mesh. Now I think 14 whole of the mesh, how much of the mesh -- that's what 14 you have seen that you've received a remnant and not 15 I'm trying to get at -- how much of the mesh was 15 the full mesh. So I'd like to revisit that. 16 curled? 16 A. Well, I did know that it is part of 17 A. I can only estimate. Won't be 17 the mesh. exact number. Maybe 10 percent, maybe 20, somewhere 18 18 Q. Okay. 19 within that ballpark. 19 A. I was implying actually to the fact 20 Q. Was the curling that you saw in 20 that there could be more curling in the segment which 21 this mesh significant to your opinions in the case? 21 was excised previously. So I do see some curling, but 22 22 A. See, when the mesh was removed it does not mean that that's the only amount of curling 23 in 2009 for the specimen I received, this was a removal 23 in the entire sling, because we don't know what was in 24 of the remnants of the mesh, because there was previous 24 the previous excision.

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Page 22 Page 24 1 Q. Are you able to get an accurate 1 A. No, I'm just saying that we cannot 2 2 restore the length of the sling in vivo and estimate measurement of the sling as it would have been sitting 3 3 in vivo based on the remnant of the sling you received what's difference of the sling which was in vivo 4 4 comparing with the initial length when it was cut out as a gross specimen? 5 5 A. Well the sling was excised -- my from pristine mesh. But we can do approximately, well 6 6 relatively good estimation of what was the width in understanding is the segment -- the sling was excised 7 7 across its length. It's not that there was a strip vivo, for the width -- using the photograph on page 15, 8 excised along its length to reduce the width of the 8 and the widest portion of the mesh is 7 millimeters. 9 sling. So what we have missing is a length of the 9 Q. Okay. During that implantation 10 sling, but the width is preserved. 10 procedure when the sling was placed, was there -- is it 11 Q. Okay. Just so we are all on the 11 your understanding that there was additional mesh 12 12 same page with length and width here, when you say 13 13 A. Yes, there was another patch of width, are you talking about the measurement that was 14 mesh placed for the anterior colporrhaphy. 14 initially 6 inches per the operative report? 15 15 Q. And do you know where that was A. 6 inches is length. 16 16 Q. And width we are talking about the placed in relation to the sling? 17 17 half inch? A. Well the anterior colporrhaphy is 18 18 done along the anterior vaginal wall and, as we A. Half inch, yes. 19 19 discussed earlier, it's an area somewhat perpendicular Q. Okay. So which dimension are you 20 20 able to look at the gross specimen and evaluate? to the sling placement. I mean, the piece was larger 21 A. Width. We can evaluate both so --21 piece but its longest dimension would be perpendicular 22 22 but we cannot restore the full length because we have to the sling. 23 23 missing parts which were removed previously. Q. And do you know whether any of the 24 24 portions of mesh removed from Ms. Stubblefield were the So if we measure this specific portion Page 23 Page 25 1 which is excised, we can estimate that the long section 1 anterior -- strike that. 2 is about 6 and a half centimeters and then the two 2 Do you know whether any of the portions 3 3 shorter segments, about a centimeter and then a half so of the mesh removed from Ms. Stubblefield were portions 4 4 seven and a half, eight, eight centimeters. So we are of the Gynemesh PS used for the cystocele repair? 5 5 missing about four centimeters of six inches. Am I A. Hmm, there were smaller pieces 6 6 right? removed. So the long piece is consistent with the 7 7 Approximately, roughly because in inches sling and the location where it was described -- what just over two centimeters, 22 millimeters or so. 8 8 was the excision report? 9 9 MR. ZIMMERMAN: That's implant. That would be an estimate. Again, we 10 10 THE DEPONENT: Sorry. Excision report cannot restore length because we don't know exactly how 11 much of it was removed unless we -- okay. If we go to 11 is here or my summary of the excision. 12 pathology description in 2007, "received 4 small pieces 12 So they excised mesh remnants from the 13 13 of pink-red tissue and mesh with cautery artifact. retropubic space, and they excised remnants of the 14 14 Piece 1 measures 3," largest dimension is 3, and then vaginal wall mesh. 15 largest dimension is 1.3 and then 1.7. And piece 15 So some portions are actually from the 16 number 4 largest dimension is 4.5. It's not clearly 16 vaginal wall mesh in 2009, and we can see by gross 17 what's the relationship between these pieces, but it 17 pictures that there on page 14, you can see that there 18 could be as much of, as 7 centimeters of the mesh 18 is one long piece, which is more consistent with sling, 19 19 excised at that time or even more, up to 10 and then there are smaller portions, two smaller or 20 20 three smaller portions. But if you want me to go into centimeters. So in this case full length could be 18, 21 21 the details of that excision, I would ask for the almost 18, 19 centimeters which is way beyond 6 inches. 22 22 Q. So if I understand your testimony, excision operative report. 23 are you saying we are not sure the size of the sling 23 BY MR. SNOWDEN: 24 24 when it was initially implanted? Q. We going to get to that, but just

Page 26 Page 28 1 not yet. 1 and sometimes they are not in chronological order. 2 I ask, in this case you received it 2 Sometimes I end up first going through records in the 3 looks like several hundreds of pages of medical records middle and then jump to the front, then there are 4 for Ms. Stubblefield. Then those are contained on your 4 duplicate entries. It's all over the place. 5 5 flash drive. I start including from page 1. I don't 6 6 Did you review all of those records in want to come back and re-review the records, so I 7 7 this case? include what I think is relevant, what I see is 8 A. I review all records in all cases. 8 relevant, and then continue including it. And I don't 9 Screened them through, identifying what is relevant. 9 know how much of that relevant information I will find 10 in the pages which are ahead of me. 10 Q. Okay. And when reviewing -- so did 11 you request all of the medical records in this case? 11 So I don't have specific target of how 12 12 A. I ask for all available records in many pages or how many records. I need to just go 13 all cases. I mean for me, the main -- the key records 13 through them and see if something is relevant, I 14 14 are implantation, and then reasons for explantation, include it and then continue on. 15 15 and explantation. These are three key records for me. It also depends on the quality of PDF This is the minimum I need. But in most cases I 16 16 files. If I can copy information, I copy it. If I 17 17 receive more than that. And I go through them. cannot copy, I have to provide my own summary, reading 18 18 through it. Sometimes I cannot read it's so poor I mean, of course, if you have more 19 19 records you can extract more information, and quality or handwriting. 20 Q. In this case you received a gross 20 especially there are several excisions, you can see the 21 reasons for each excision and you can see how much of 21 specimen, a tissue; is that correct? 22 22 that was removed at each excision. A. That is correct. 23 23 Q. And it was in formalin? 24 24 A. That is correct. Q. So in this case -- okay. Strike Page 27 Page 29 1 that. 1 Q. All right. It was from the 2009 2 What's the significance of the summary 2 explant procedure, correct? 3 3 that you've included in your report for A. Correct, September 23, 2009. 4 4 Ms. Stubblefield? And that runs from page 1 through 9. Q. Did you process this specimen in 5 5 A. So as I indicated in other cases, I the standard tissue process, using the standard tissue 6 6 do not do comprehensive differential diagnosis or processing protocol you've used in all the cases? 7 7 comprehensive clinical differential diagnosis. What I A. The processing methodology is the 8 8 do is provide a background of the specimen I receive. same for all laboratories. All diagnostic laboratories 9 9 The implementation, the development of symptoms, the use the same -- I mean, all histological labs use the 10 10 work up of the clinicians when they go through their same protocols, and they use the same machines and the 11 11 clinical differential diagnosis and the decision to same reagents. They are bought from suppliers and the 12 excise the mesh, so it provides a context for the 12 machines are programmed and adjusted by the 13 13 specimen I examine. And the indication that the manufacturers. 14 14 differential diagnosis was performed by the clinicians Q. Okay. Is it your understanding 15 and the decision to excise the mesh was final decision 15 that during the implant Prolene sutures were used to 16 after the clinical workup. 16 suspend the sling into place? 17 Q. And how did you determine in this 17 A. I don't see -- oh, I see one, at 18 case to include the eight or so -- or nine page -- let 18 least one. There was a Prolene suture tied to the 19 19 me get this right -- from page 1 to page 9 in this sling before placement. 20 20 summary versus other cases where you have included one Q. Okay. And then -- sorry, go ahead. 21 page of the key records you've just described, implant, 21 A. They were pulled. I don't see then 22 22 reasons for explant, and the explant? description of how they were trimmed or cut completely, 23 A. As I said, when I go through the 23 so it's not clear if they were left in body after that. 24 24 records I don't know what I'm going to find further on Q. Okay. On figure MS1 on page 14 of

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Page 30 Page 32 1 your report -- one back -- the suture you see there, is 1 were talking about contraction of the tissue. So this 2 that consistent with Prolene? 2 is the edge of the tissue, or of the specimen. 3 3 A. Yes, but that suture is for Q. You have drawn a red line. 4 4 excision, not for placement as far as -- if we --A. Yes. And then if we follow scar, 5 again, if you give me the excision operative report, we at least in this pore we can see the retraction of the 6 6 can read what was used. scar plate or scar tissue retraction into the mesh. So 7 7 Q. Okay. Well, before we get there, that indentation is due to scar contraction. And it 8 let's look at -- we are still looking at the implant 8 cannot be due to fixation of the tissue because we see 9 9 operative report. It mentions that the cystocele the edge which is a different shape. 10 10 repair was then covered with a piece of the same mesh So that fat was pulled into the mesh 11 and sutured into place laterally using 3-0 Ethibond. 11 pore because scar in this area. 12 12 Do you see that? Q. Which you have circled with red? 13 13 A. I do. A. Yes, was contracting. So the 14 contraction was pulling all tissue in, and that 14 Q. Did you find any Ethibond in your 15 15 specific pore shows the mechanism how normal fat tissue specimen? 16 16 A. To my recollection, no. becomes incorporated into the pores. It's because of 17 17 Q. Okay. the contraction of the scar within the mesh. 18 18 A. Because if I see it, I usually Q. And for the record, you have drawn 19 19 next to the word "fat", you have drawn an arrow include description and pictures. 20 20 Q. And the suture found on page 14 of pointing where you say the mesh -- the tissue has 21 your report, did you submit any of that suture for 21 contracted pulling the fat into the pore space. 22 22 processing? A. So in this case we can see the 23 23 A. The part which is in smaller pieces extent of contraction at least in that specific pore, 24 24 because we see the interface with normal tissue. in -- is in the sections. Page 31 Page 33 1 Q. Okay. Do you have a figure that 1 Q. Okay. Can you look at this picture 2 shows that suture in the section? 2 and tell us whether this, the pathology here is causing 3 3 A. Because it is thicker, much thicker any symptoms in Ms. Stubblefield? 4 4 than mesh fibers, it may or may not stay on the A. We cannot take one picture or 5 5 sections. Because usually what happens with thicker single out one feature and say that that's what is 6 6 fibers, they pop out completely. So they just don't causing all the symptoms. It's not like that. You 7 7 stay in the tissue. Because that Prolene suture is at have to consider the entire mesh together with all the 8 8 tissue changes which are triggered by the mesh as one least three times thicker than the mesh fibers. It's 9 9 really firm when it's so thick and does not stay in the lesion which is causing the symptoms. 10 10 tissue. Q. Figure MS4 on page 17, what 11 11 Q. All right. Let's start going significance, if any, do you attribute to this photo? 12 through your pictures. Figure MS3. 12 A. And I will answer all questions I'm 13 A. Which page? 13 asked at trial for MS3 and I will expand that summary I 14 14 Q. Page 16. just gave, so I would not be limited to a -- the 15 A. Yes. 15 summary which we just discussed regarding that 16 Q. What significance, if any, do you 16 photograph. 17 attribute to this picture? 17 MS4 on page 17 shows another area of 18 A. So this specific part of the mesh 18 curled mesh. Now interestingly, this is embedded in a 19 19 way where we can see more fat within the fold. So I has folding and the scar tissue grew into the folds and 20 20 between the folds. So the mesh became incorporated in think it's a cutting through cup-like shape of the 21 this folded configuration. And we can see that most of 21 mesh. So when we cut through this cup, the fat tissue, 22 22 the tissue around the mesh is scar tissue. There's a which is inside, became in the middle. So this would 23 ring of normal fat tissue outside of the scar plate. 23 be -- this type of shape of the mesh, that's how we see 24 24 Now what is interesting, remember we fat tissue within or inside the mesh fold.

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Page 34 Page 36 1 Q. So you have drawn sort of oval 1 will use green marker which has sectioned parallel to 2 2 their access or parallel to the plane of the mesh. So shape on page 17. 3 3 A. It's somewhat similar to a spoon. all of these fibers are sectioned parallel. 4 That's the likely scenario how this appearance was 4 So this pattern is only possible when we 5 5 generated in histological section. section parallel to the mesh. 6 6 Q. How do you rule out tissue Q. Okay. 7 7 processing as a cause of that? A. Then we section the mesh fibers 8 A. Well, tissue processing cannot 8 along their long axis or along their length. 9 cause scarring. Tissue processing cannot cause fat to 9 Q. And what was your reason for 10 10 appear in this areas. I mean it's just present there. including this picture in your report? 11 All of these tissues together, fats, scar and the mesh 11 A. Here you can see again the same 12 12 itself, are subject to all changes during tissue phenomenon, scar plating, bridging fibrosis and then in 13 processing. And you can see that that shape is not 13 some areas fat is being pulled into the pores. 14 14 flat mesh. It's either curled one layer, which is not Q. Okay. So in the areas here where 15 as likely, or cup-shape mesh section at the edges of 15 fat is in the pores, is there any -- strike that. 16 this cup or it's like a spoon-like shape. 16 The fat that you see in the pore spaces 17 17 Q. Are there any pores in this picture here, is it your testimony that was all pulled into the 18 18 with fat tissue within them? pore as a result of contraction? 19 A. Yes, there are. 19 A. I think that's the only viable 20 20 O. How many? mechanism to, and you can see it in other images that 21 A. Several, at least three. So in 21 that's what is happening. 22 22 this specific case, the fat was retracted and slowly O. Is there anything else abnormal in 23 pushed its way into the pores. It's the same mechanism 23 figure MS5? 24 as in the previous picture. The mesh is placed in the 24 A. Well, I can talk for a long time Page 35 Page 37 1 body, all the spaces within the mesh are filled with about this image. I will answer all questions I'm 1 2 blood and then there is granulation tissue and then 2 asked at the trial and expand this summary. 3 3 when it matures, it contracts. And when it contracts The main abnormality here is presence of 4 4 it starts pulling fat tissue through the pores into the the foreign body scar encapsulation, bridging fibrosis. 5 5 mesh. And in this case we have a tangential view of We can see some of the foreign-body type reaction from 6 6 this process in page MS4 -- sorry, on page 17, picture this power. And we can see or I can demonstrate the 7 7 MS4. difference between scar plate and surrounding normal 8 8 fat tissue. Q. And that process you just 9 9 described, does that occur with any mesh? Q. Are you able to tie any 10 10 A. You mean contraction of scar tissue complications to the figure MS5? 11 11 and pulling of normal tissue into the pores? A. I'm not tying complications to 12 Q. That the blood is there and then 12 specific or one single picture in any of these cases. 13 that brings the healing that you just described. 13 What I'm doing, I'm describing all the changes which 14 14 A. Yes. It's a nonspecific mechanism are occurring at the same time in relation to the mesh, 15 15 all tissue changes; they work together. I mean there for healing. All empty spaces in the body first are 16 16 will be contribution, more contribution of one factor filled with body fluids. Most commonly it's blood clot 17 and then that blood clot is being replaced by 17 comparing to the other, but they will all be present at 18 granulation tissue or that's what we call organization, 18 the same time. And we can observe them at the same 19 19 organizing blood clot. time in the same specimen. 20 20 Q. Did you consult a neuropathologist Q. MS5 on page 18, what do we see here 21 21 in this picture? in this case? 22 22 A. So this is a flat portion of the A. For this case, as for all other 23 mesh. And it's embedded parallel to the plane of 23 cases, I neither consulted nor needed to consult a 24 sectioning. You can see several mesh fibers, and I 24 neuropathologist to arrive to my opinions.

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	Page 38		Page 40
1	Neuropathologists examine brain and	1	on H&E picture. It's not microscopic slide where I can
2	spinal cord lesions and some larger peripheral nerves	2	zoom in and zoom out.
3	for neurodegenerative diseases. In this case, it's not	3	So my accuracy may be somewhat
4	a brain tissue. It's vaginal tissue. It's a foreign	4	limited.
5	body implanted for urogynecological reasons. And the		Q. Okay. So you have drawn green
6	nerves I observed did not show degeneration or	6	circles on the figure MS6.
7	degenerative disease.	7	A. I think that's pretty accurate
8	The location was abnormal. They were	8	comparing with s100.
9	present in the mesh, and they were present in the scar	9	Q. Okay.
10	tissue. That was abnormal, but the nerves themselves	10	A. I didn't look at this, so I just
11	did not show much pathology.	11	drew it.
12	Q. Okay. What pathology did they	12	Q. So the structures where the arrows
13	show, if they didn't show much?	13	hit on figure MS6 are sort of below where you've
14	A. So the main abnormality here on	14	circled the nerves?
15	page 20 is presence of the nerves inside the mesh,	15	
16		16	A. Well, I'm pointing with the arrows not specific point, but the location of the nerves.
17	embedded in the scar tissue which fills the mesh.	17	
	That's the main abnormality. From this low power I	18	And you can see there are four nerves here.
18	cannot assess for degeneration, but it is not apparent		Q. Okay.
19	from this view.	19	A. And the arrows are just pointing in
20	Q. Okay. Figure MS6 and MS7, are	20	general direction of the nerves.
21	those similar portions of the tissue? One is in H&E	21	Q. Okay. Did you do any axonal
22	and one is a is an s100; is that right?	22	staining in this case?
23	A. It's possible. Likely.	23	A. I did not need to do axonal
24	Q. And if we look at where the mesh	24	staining, and I did not do it.
	Page 39		Page 41
1	spaces are, they sort of line up together moving from	1	Q. Did you analyze the specimen to
2	MS6 to MS7; is that right?		
3		2	look for axons under using s100 or H&E?
	A. That is correct.	3	look for axons under using s100 or H&E? A. Sorry, it says
4	Q. Okay. In this case you have two	3 4	look for axons under using s100 or H&E? A. Sorry, it says DISCUSSION OFF THE RECORD
4 5	Q. Okay. In this case you have two pictures depicting nerves; is that right?	3 4 5	look for axons under using s100 or H&E? A. Sorry, it says DISCUSSION OFF THE RECORD BY MR. SNOWDEN:
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11 (Pages 38 to 41)

	Page 42		Page 44
1	BY MR. SNOWDEN:	1	getting close to the vaginal mucosa, they will be
2	Q. So I will represent to you we did	2	somatic or likelihood of them being somatic will be
3	not receive a synoptic report in this case.	3	higher. If you are getting deeper in the bladder wall,
4	Would you agree that you didn't see any	4	there won't be any somatic nerves. All of them will be
5	traumatic neuromas in this case?	5	autonomic.
6	A. I do. I do agree. Or traumatic	6	Q. Do you know how close this slide is
7	neuroma-type of lesions within the mesh.	7	from the bladder wall or the mucosa, vaginal mucosa?
8	Q. Okay. None of those either?	8	A. Well see, I did not see any
9	A. None of those.	9	portions of the bladder wall in this specimen.
10	Q. The nerves found in MS6, are you	10	Q. Do you see any mucosa vaginal
11	able to tell on the H&E whether those are pain	11	mucosa in this specimen?
12	mediating nerves?	12	A. No.
13	A. Well, all peripheral nerves or most	13	Q. Is it fair to say you don't have a
14	of them are mixed, so they contain motor fibers and	14	marker above or below, and above meaning bladder and
15	sensory fibers afferent and efferent.	15	below meaning vaginal mucosa, to orient where the MS7
16	Q. Are you able to look at the s100 or	16	came from?
17	H&E of these nerves and determine that?	17	A. No. Also some pieces also came
18	A. It's just general neuroanatomy that	18	from the retropubic space.
19	most of the nerves are mixed.	19	Q. And what would be the significance
20	Q. Do you know where strike that.	20	if the portion was from the retropubic space?
21	Do you know what these nerves are innervating?	21	A. See, if it's retropubic space,
22	A. Tissue within the anterior vaginal	22	likelihood of those being somatic is higher than
23	wall and the bladder in that area.	23	autonomic, because autonomic nerves running from below
24	Q. Do you know how far their targets	24	to the bladder. The innervation pattern is from
21	Q. Do you know now fair their targets		to the oldder. The limer varion pattern is from
	Dago 12		Dago 45
1	Page 43	1	Page 45
1	are away from this section?	1	lateral and below and going into the bladder. If you
2	are away from this section? A. Well, they will have targets along	2	lateral and below and going into the bladder. If you are going above the bladder, all autonomic or most of
2	are away from this section? A. Well, they will have targets along the course of the nerve, so they will be branching on	2	lateral and below and going into the bladder. If you are going above the bladder, all autonomic or most of the autonomic innervation is already ended in the
2 3 4	are away from this section? A. Well, they will have targets along the course of the nerve, so they will be branching on its way. So there will be targets close by and then	2 3 4	lateral and below and going into the bladder. If you are going above the bladder, all autonomic or most of the autonomic innervation is already ended in the bladder.
2 3 4 5	are away from this section? A. Well, they will have targets along the course of the nerve, so they will be branching on its way. So there will be targets close by and then nerve continues on and the targets will be further	2 3 4 5	lateral and below and going into the bladder. If you are going above the bladder, all autonomic or most of the autonomic innervation is already ended in the bladder. Q. The nerves or the s100 positive
2 3 4 5 6	are away from this section? A. Well, they will have targets along the course of the nerve, so they will be branching on its way. So there will be targets close by and then nerve continues on and the targets will be further down. So some of the targets are close by. Especially	2 3 4 5 6	lateral and below and going into the bladder. If you are going above the bladder, all autonomic or most of the autonomic innervation is already ended in the bladder. Q. The nerves or the s100 positive staining structures in the top left of the picture,
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12 (Pages 42 to 45)

1	Page 46		Page 48
_	is distortion and separation within the scar tissue.	1	A. So I will not single out one
2	Q. MS8, if you could turn there, what	2	specimen's pathological feature or histological feature.
3	does this show?	3	They all occur in the same specimen together. Some of
4	A. This is an H&E slide. It shows	4	them have greater roles; some of them have lesser role.
5	several mesh fibers, a cluster of mesh fibers. And	5	But overall we cannot separate them, because they are
6	that cluster is on the left and close to the lower	6	all incurring in response to mesh. And when they all
7	border, and then the upper right corner is filled with	7	occur together, they cause symptoms.
8	scar tissue and there is a cluster of chronic	8	Q. Figure MS9, what are you showing
9	lymphocytic inflammation in the area.	9	here?
10	Q. What significance, if any, would	10	A. This is a different type of
11	you attribute to this finding?	11	inflammation. This is, again, an H&E stain slide with
12	A. It shows increased inflammation.	12	cluster of mesh fibers. And in the middle of this
13	This would be abnormal to have in normal vaginal	13	image, there is foreign-body type inflammation reacting
14	tissue. Increases burden of inflammation within the	14	to the mesh. And the corners, upper right corner and
15	mesh.	15	the lower left corner is filled with scar tissue. So
16	Q. Overall in Ms. Stubblefield's	16	that scar tissue is part of the scar plate.
17	specimen, how would you rate the chronic inflammatory		
18	infiltrate?	18	Q. Okay. And sorry, are you finished?
		19	
19 20	A. I cannot grade it using just one spot. How I do it, I use objective times four and I	20	A. And you can also see degradation bark in some of the fibers.
21	count number of fossa like this.	21	
22		22	Q. In the upper right portion of the
	Q. Did you do that in this case?		picture, the tissue closest to or abutting the mesh
23	A. If I did synoptic report, I did but	23 24	fiber, are there any giant cells there?
24	we determined	24	A. No.
	Page 47		Page 49
1	Q. Okay.	1	Q. And in the space, the well, the
2	A. That why I did not do it.	2	
3		_	fiber is still present there, correct?
	Q. Okay. So in some cases you have	3	A. That is correct.
4	done that, but not in this one?	4	A. That is correct.Q. And there's degradation bark along
4 5	done that, but not in this one? A. Well, I do not require those type	4 5	A. That is correct. Q. And there's degradation bark along that area where there are no giant cells; is that
4 5 6	done that, but not in this one? A. Well, I do not require those type of measurements to formulate my opinions. As I said,	4 5 6	A. That is correct. Q. And there's degradation bark along that area where there are no giant cells; is that correct?
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Well, I do not require those type of measurements to formulate my opinions. As I said, any degree of inflammation is abnormal well, that degree of inflammation is abnormal, and I'm not basing it on the number of clusters of these chronic inflammatory cells but their amount, their clustering. So this is an abnormal finding already without grading. Q. If you see one cluster like this in MS8, is that significant to your opinion? A. Everything is significant to my opinion. All of this is abnormal. I'm describing the abnormalities. So as in any pathological specimen, when we examine, we describe what is abnormal, what is different with the tissue which is expected to be seen there or with our knowledge of normal histology in the area. Q. What clinical symptoms do you	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. That is correct. Q. And there's degradation bark along that area where there are no giant cells; is that correct? A. That is correct. Q. Are there giant cells on the lower left portion of the tissue in the lower left corner where it's abutting the tissue the tissue abuts the mesh? A. Do you mean other macrophages as part of foreign body reaction? Giant cells macrophages don't always form giant cells. So foreign bodies formed by macrophages, but they are not always giant cells. I see few cells, few macrophages but they amount is not the same as what is occurring in the middle of the image. Q. Okay. Is the presence of these foreign body giant cells in the middle of this figure,
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Well, I do not require those type of measurements to formulate my opinions. As I said, any degree of inflammation is abnormal well, that degree of inflammation is abnormal, and I'm not basing it on the number of clusters of these chronic inflammatory cells but their amount, their clustering. So this is an abnormal finding already without grading. Q. If you see one cluster like this in MS8, is that significant to your opinion? A. Everything is significant to my opinion. All of this is abnormal. I'm describing the abnormalities. So as in any pathological specimen, when we examine, we describe what is abnormal, what is different with the tissue which is expected to be seen there or with our knowledge of normal histology in the area. Q. What clinical symptoms do you attribute to the presence of chronic inflammation in	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. That is correct. Q. And there's degradation bark along that area where there are no giant cells; is that correct? A. That is correct. Q. Are there giant cells on the lower left portion of the tissue in the lower left corner where it's abutting the tissue the tissue abuts the mesh? A. Do you mean other macrophages as part of foreign body reaction? Giant cells macrophages don't always form giant cells. So foreign bodies formed by macrophages, but they are not always giant cells. I see few cells, few macrophages but they amount is not the same as what is occurring in the middle of the image. Q. Okay. Is the presence of these foreign body giant cells in the middle of this figure, significant to your opinion?
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Page 52 Page 50 1 foreign body reaction of any degree is abnormal in the 1 actually formation of giant cells. So when the 2 2 tissue. Normally there is no foreign body reaction in macrophages cannot destroy an object, they merge 3 3 tissues. And this type of inflammation contributes to together to form these larger cells or giant cells, 4 4 multinucleated cells in an attempt to phagocytose or all the changes which are triggered by the mesh 5 5 together with a chronic inflammation we discussed swallow the body, the foreign body. 6 6 earlier, scar plate formation and other features we The degree of foreign body reaction here 7 7 discussed earlier. All of that works together. is greater than what we saw in the previous image. 8 O. And in Ms. Stubblefield's case, 8 There is also scaring or bridging fibrosis just outside 9 does the presence of foreign body inflammation indicate 9 of the mesh fibers and in between the mesh fibers. So 10 that the mesh is not biocompatible? 10 all of the tissue which is in this image is abnormal. 11 11 A. It depends on how we determine or There is a presence of foreign body. There's scar 12 12 how we use the term "biocompatible." If we want to use bridging. There is scar plate formation. And then 13 the term "biocompatibility" to describe a device or a 13 there is foreign-body type reaction with a number of 14 14 larger giant cells. material which would be completely inert, then I would 15 15 say the mesh is not inert. The mesh triggers foreign Q. The foreign-body type inflammation 16 16 body reaction. that you show in MS9 and MS10 is that representative of 17 17 Q. Are you going to be offering an a degree of foreign body inflammation throughout the 18 18 opinion in this case regarding whether specimen? 19 Ms. Stubblefield's mesh is biocompatible? 19 A. I'm not sure what you mean. I 20 20 don't understand the question. A. Hmm, I don't think I used that word 21 in either my general report or in this case-specific 21 Q. So --22 22 A. It's representative of the area I 23 23 Q. Okay. So is that a no? took photograph. It's exact copy what was in there. 24 A. Just don't describe it. What I can 24 Q. Right. Is it representative of the Page 51 Page 53 1 foreign body reaction found throughout the entire say is that it's not inert. 1 2 Q. And will you be telling the ladies 2 specimen? 3 3 and gentleman of the jury about the principles of A. I'm not sure if it can be done in 4 4 biocompatibility and whether Ms. Stubblefield's mesh one image. How can you represent the entire specimen 5 using one image? One image just represents the area. 5 was biocompatible? 6 6 A. Again, I did not provide any Q. All right. Well, you have two 7 7 opinions regarding biocompatibility in either my images here. Are the two images representative, when 8 8 general report or case-specific report. If I am asked taken together, of the entirety of the specimen with 9 9 regarding this type of questioning, I think the best regard to foreign-body type inflammation? 10 10 wording would be as inertness, because biocompatible or A. No, they cannot represent entire 11 biocompatibility terminology can be used as long as we 11 specimen because they are just two images of two 12 agree what it means in -- for different people, it may 12 specific areas. 13 mean different. When we see inert and not inert, that 13 Q. Are there areas with less foreign 14 implies that either there is reaction against it or 14 body inflammation in the specimen? 15 there is no reaction. And in this case we do know that 15 A. Well, even in the image MS9 on page 16 there is reaction. So it's not inert. It triggers a 16 22 we have one corner which has no foreign body 17 reaction, foreign-body response, foreign-body type 17 reaction. And then the middle part has quite extensive 18 inflammatory reaction, it triggers scar encapsulation. 18 collection of macrophages. So what happens, foreign 19 19 All of that is a response to an object, therefore, it's body responds, in most cases, does not envelope or does 20 not inert. 20 not form a sheath around the mesh fibers. There's some 21 21 Q. Figure MS10, if you can turn your skip areas or patchy clusters of foreign body 22 22 attention there, what does this picture show? macrophages or foreign-body type reaction. That's how 23 A. So now this image shows another 23 it is. 24 area of an H&E stain slide, and this area shows 24 In some areas, the foreign body response

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	Page 54		Page 56
1	is so permanent that it forms this confluent band along	1	description does the pathologist at Vanderbilt
2	the mesh fibers. Actually it becomes almost bridging	2	University assess deformation in the mesh specimen?
3	and in this case it is bridging. I mean, if we look at	3	A. There's no assessment for
4	MS10, the spacing between these fibers we can mark	4	deformation in the gross description.
5	them with star	5	Q. Okay. And the gross only here
6	O. Green star.	6	means that the pathology department at Vanderbilt did
7	A. Green star. That space is actually	7	not submit the specimen for microscopic examination; is
8	•	8	_
	bridged by the foreign body reaction, so here we can	9	that right?
9	call it as bridging inflammation.		A. That is correct.
10	Q. Okay. Is that present throughout	10	Q. Okay. We can put that aside for
11	the entirety of the specimen?	11	now. Is it your understanding in this case that
12	A. No, it's not. Again, some fossa	12	Ms. Stubblefield underwent four revision surgeries?
13	are like this; some fossa have less.	13	A. At least four from what I can see
14	Q. What is the significance, if any,	14	in the summary.
15	of the bridging of the inflammation?	15	Q. Okay. And you received a specimen
16	A. Just shows the extent of	16	from one of these, only one of these surgeries; is that
17	inflammation that it's, it's so extensive in that	17	correct?
18	specific area that it bridges. The volume of	18	A. That is correct.
19	inflammation the more inflammation, the more damage	19	Q. Have you received any other
20	from inflammation, the more inflammatory mediators in	20	specimens taken from Ms. Stubblefield other than from
21	there, the more negative effects of the inflammation.	21	the September 23rd, 2009, surgery?
22	RECESS AT 9:39	22	A. No.
23	RESUMING AT 9:51	23	Q. And we talked about this briefly
24		24	earlier, but you had mentioned that a portion of the
	Page 55		
	rage 33		Page 57
1		1	
1 2	BY MR. SNOWDEN:	1 2	sling had been removed prior to September 23rd, 2009;
	BY MR. SNOWDEN: Q. All right. I'm going to hand you		
2	BY MR. SNOWDEN: Q. All right. I'm going to hand you what has been marked as Stubblefield four.	2 3	sling had been removed prior to September 23rd, 2009; is that right? A. That is correct.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. SNOWDEN: Q. All right. I'm going to hand you what has been marked as Stubblefield four. EXHIBIT NO. 4: Surgical Pathology Final Report, reported 9/28/2009 MR. ZIMMERMAN: Thank you. BY MR. SNOWDEN: Q. If you look at the right-hand of this surgical pathology report, see the collection date of 9/23/2009? A. I do. Q. Does that correspond with the specimen you received in this case? A. Yes, it does. Q. And if we look down under the diagnosis it says, "Mesh excision synthetic material consistent with surgical mesh (gross diagnosis only)." Do you see that? A. I do. Q. Then there is a gross description toward the bottom of the page that then continues on to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	sling had been removed prior to September 23rd, 2009; is that right? A. That is correct. Q. I want to hand you what I'm marking as Stubblefield 5. EXHIBIT NO. 5: Operative report 2007/01/04 MR. ZIMMERMAN: Thank you. BY MR. SNOWDEN: Q. And do you recognize this to be the operative note from Ms. Stubblefield's surgery on January 4, 2007? A. Yes. Q. Before we get too far into this, let me ask you. Regarding your clinicopathological correlation, do you have an opinion in this case regarding the cause of Ms. Stubblefield's erosion? A. Well, the erosion was caused by the foreign body. So we as we discussed with other specimens or other plaintiffs, because mesh cannot be remodeled and cannot be modified, altered by the body,

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	Page 58		Page 60
1	reabsorbed completely to seal off the area. So if	1	A. No, I did not.
2	there is foreign object in the wound, it will not heal.	2	Q. In this case you didn't see any
3	So this is the main feature, nature of	3	acute inflammation in the specimen?
4	the mesh as foreign body. That's why it erodes.	4	A. No, I did not.
5	That's why it becomes a chronically eroded wound.	5	Q. In this case you didn't see any
6	There is also whole set of other	6	signs of infection in the specimen?
-	features in relation to the mesh, but those feature,	7	A. In my half what I examined, I did
8	features are of the tissue reaction. The scarring in	8	not.
9	the area and inflammation, they all work together with	9	Q. On page 13 of your report under the
10	the mesh so they also have or they also contribute	10	polypropylene degradation section, you have there,
11	to all the changes.	11	"The degraded polypropylene formed a continuous
12	Q. And are you able to identify which	12	brittle sheath around the mesh. Filaments contributing
13	of those factors was the cause of Ms. Stubblefield's	13	to mesh stiffening." Do you see that?
14	erosions in this case?	14	A. I do.
15		15	Q. Did you do any mechanical testing
16	A. As I said, because they all occur	16	
17	at the same time, and they all occur due to the mesh	17	of the mesh?
	placement, we cannot separate one single feature and		A. I did not perform any destructive
18	then link it to one specific symptom. It's impossible.	18	testing, either analytical chemistry or mechanical
19	Everything occurs at the same time. They're all related	19	testing, because this would not give me opportunity to
20	to the mesh and	20	do histology. I used histological methods to observe
21	Q. In your erosion section on page 11	21	features under the microscope, and then I can judge by
22	of your report, you have listed as one of the several	22	the histological appearance or appearance of the
23	factors in the mechanisms of erosion, you list	23	polypropylene in this case under the microscope
24	infection. Do you see that? In your report?	24	regarding its properties. And if something shatters or
	Page 59		Page 61
1	A. This would be	1	cracks, it indicates its brittleness, because the
2	Q. Page 11.	2	nondegraded core of the fibers does not crack while the
3	A. Page 11.	3	degraded bark cracks.
4	Q. And it's just before the last		degraded carri cracius.
5	· · · · · · · · · · · · · · · · · · ·	4	Therefore, it indicates that there is a
•	paragraph on the page.	4 5	
6	paragraph on the page. A. Yes, I do.		Therefore, it indicates that there is a
7	A. Yes, I do.Q. Do you have an opinion in this case	5	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have,
7	A. Yes, I do.	5 6	Therefore, it indicates that there is a change of physical properties which is due to degradation.
7 8	A. Yes, I do.Q. Do you have an opinion in this case	5 6 7	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have,
7 8	A. Yes, I do. Q. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh	5 6 7 8	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have, "Extensive cracking can also provide cavities to
7 8 9 10	A. Yes, I do. Q. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh prior to strike that.	5 6 7 8 9	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have, "Extensive cracking can also provide cavities to harbor bacteria as is well known in microporous
7 8 9 10 11	A. Yes, I do. Q. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh prior to strike that. Do you have an opinion in this case	5 6 7 8 9	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have, "Extensive cracking can also provide cavities to harbor bacteria as is well known in microporous meshes." Did you identify any bacteria in the cracking
7 8 9 10 11	A. Yes, I do. Q. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh prior to strike that. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh	5 6 7 8 9 10 11	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have, "Extensive cracking can also provide cavities to harbor bacteria as is well known in microporous meshes." Did you identify any bacteria in the cracking of the degradation layer in this case?
7 8 9 10 11 12	A. Yes, I do. Q. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh prior to strike that. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh that led to an erosion?	5 6 7 8 9 10 11	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have, "Extensive cracking can also provide cavities to harbor bacteria as is well known in microporous meshes." Did you identify any bacteria in the cracking of the degradation layer in this case? A. As specimens, I do not search for
7 8 9 10 11 12 13	A. Yes, I do. Q. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh prior to strike that. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh that led to an erosion? A. So regarding infection, an	5 6 7 8 9 10 11 12	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have, "Extensive cracking can also provide cavities to harbor bacteria as is well known in microporous meshes." Did you identify any bacteria in the cracking of the degradation layer in this case? A. As specimens, I do not search for individual bacteria. It's difficult to do in
7 8 9 10 11 12 13 14 15	A. Yes, I do. Q. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh prior to strike that. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh that led to an erosion? A. So regarding infection, an infection may not be present before the erosion or	5 6 7 8 9 10 11 12 13	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have, "Extensive cracking can also provide cavities to harbor bacteria as is well known in microporous meshes." Did you identify any bacteria in the cracking of the degradation layer in this case? A. As specimens, I do not search for individual bacteria. It's difficult to do in histological sections. I can identify bacteria when
7 8 9 10 11 12 13 14 15	A. Yes, I do. Q. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh prior to strike that. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh that led to an erosion? A. So regarding infection, an infection may not be present before the erosion or trigger the erosion. However, once the mesh is exposed	5 6 7 8 9 10 11 12 13 14	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have, "Extensive cracking can also provide cavities to harbor bacteria as is well known in microporous meshes." Did you identify any bacteria in the cracking of the degradation layer in this case? A. As specimens, I do not search for individual bacteria. It's difficult to do in histological sections. I can identify bacteria when they are in colonies. Then it is more reliable.
7 8 9 10 11 12 13 14 15	A. Yes, I do. Q. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh prior to strike that. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh that led to an erosion? A. So regarding infection, an infection may not be present before the erosion or trigger the erosion. However, once the mesh is exposed or there is a breach of mucosal surface, the wound of	5 6 7 8 9 10 11 12 13 14 15	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have, "Extensive cracking can also provide cavities to harbor bacteria as is well known in microporous meshes." Did you identify any bacteria in the cracking of the degradation layer in this case? A. As specimens, I do not search for individual bacteria. It's difficult to do in histological sections. I can identify bacteria when they are in colonies. Then it is more reliable. Q. In the second to last paragraph you
7 8 9 10 11 12 13 14 15 16 17	A. Yes, I do. Q. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh prior to strike that. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh that led to an erosion? A. So regarding infection, an infection may not be present before the erosion or trigger the erosion. However, once the mesh is exposed or there is a breach of mucosal surface, the wound of mesh exposure becomes infected. And then that triggers	5 6 7 8 9 10 11 12 13 14 15 16 17	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have, "Extensive cracking can also provide cavities to harbor bacteria as is well known in microporous meshes." Did you identify any bacteria in the cracking of the degradation layer in this case? A. As specimens, I do not search for individual bacteria. It's difficult to do in histological sections. I can identify bacteria when they are in colonies. Then it is more reliable. Q. In the second to last paragraph you have:
7 8 9 10 11 12 13 14 15 16 17 18	A. Yes, I do. Q. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh prior to strike that. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh that led to an erosion? A. So regarding infection, an infection may not be present before the erosion or trigger the erosion. However, once the mesh is exposed or there is a breach of mucosal surface, the wound of mesh exposure becomes infected. And then that triggers acute inflammation, and then there is more damage of	5 6 7 8 9 10 11 12 13 14 15 16 17 18	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have, "Extensive cracking can also provide cavities to harbor bacteria as is well known in microporous meshes." Did you identify any bacteria in the cracking of the degradation layer in this case? A. As specimens, I do not search for individual bacteria. It's difficult to do in histological sections. I can identify bacteria when they are in colonies. Then it is more reliable. Q. In the second to last paragraph you have: "Degradation of a polymer also
7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes, I do. Q. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh prior to strike that. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh that led to an erosion? A. So regarding infection, an infection may not be present before the erosion or trigger the erosion. However, once the mesh is exposed or there is a breach of mucosal surface, the wound of mesh exposure becomes infected. And then that triggers acute inflammation, and then there is more damage of the tissue. Because it is inflamed and infected, the	5 6 7 8 9 10 11 12 13 14 15 16 17 18	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have, "Extensive cracking can also provide cavities to harbor bacteria as is well known in microporous meshes." Did you identify any bacteria in the cracking of the degradation layer in this case? A. As specimens, I do not search for individual bacteria. It's difficult to do in histological sections. I can identify bacteria when they are in colonies. Then it is more reliable. Q. In the second to last paragraph you have: "Degradation of a polymer also indicates its breakdown into smaller
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes, I do. Q. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh prior to strike that. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh that led to an erosion? A. So regarding infection, an infection may not be present before the erosion or trigger the erosion. However, once the mesh is exposed or there is a breach of mucosal surface, the wound of mesh exposure becomes infected. And then that triggers acute inflammation, and then there is more damage of the tissue. Because it is inflamed and infected, the area cannot heal, so that becomes a contributing factor	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have, "Extensive cracking can also provide cavities to harbor bacteria as is well known in microporous meshes." Did you identify any bacteria in the cracking of the degradation layer in this case? A. As specimens, I do not search for individual bacteria. It's difficult to do in histological sections. I can identify bacteria when they are in colonies. Then it is more reliable. Q. In the second to last paragraph you have: "Degradation of a polymer also indicates its breakdown into smaller molecules. In cases of implanted
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes, I do. Q. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh prior to strike that. Do you have an opinion in this case regarding whether Ms. Stubblefield had an infected mesh that led to an erosion? A. So regarding infection, an infection may not be present before the erosion or trigger the erosion. However, once the mesh is exposed or there is a breach of mucosal surface, the wound of mesh exposure becomes infected. And then that triggers acute inflammation, and then there is more damage of the tissue. Because it is inflamed and infected, the area cannot heal, so that becomes a contributing factor for continuing erosion. So it or expansion of the	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Therefore, it indicates that there is a change of physical properties which is due to degradation. Q. The next sentence you have, "Extensive cracking can also provide cavities to harbor bacteria as is well known in microporous meshes." Did you identify any bacteria in the cracking of the degradation layer in this case? A. As specimens, I do not search for individual bacteria. It's difficult to do in histological sections. I can identify bacteria when they are in colonies. Then it is more reliable. Q. In the second to last paragraph you have: "Degradation of a polymer also indicates its breakdown into smaller molecules. In cases of implanted materials, the products of degradation

16 (Pages 58 to 61)

i	Page 62		Page 64
1	Do you see that?	1	opinions?
2	A. I do.	2	BY MR. SNOWDEN:
3	Q. Did you identify any of those	3	Q. I'm asking if he has a new opinion
4	products of degradation released into the tissue in	4	regarding testing that has been ongoing in the case,
5	this case?	5	which I think I'm entitled to ask.
6	A. We cannot because that would be	6	MR. ZIMMERMAN: Do you have a question
7	destructive testing. And I don't know if there is any	7	about Ms. Stubblefield? Because it's a case-specific
8	test to measure it in the tissue. All of the	8	deposition that we're taking today.
9	publications I have seen, they were measuring products	9	If you are asking for an update on the
10	of degradation in vitro when there was degradation of	10	opinions that were elicited during his general
11	the polypropylene outside of the body.	11	deposition, it's outside of the scope of this
12	Q. Okay. On pages 32 strike that.	12	deposition.
13	Pages 26 of your report through page 32,	13	BY MR. SNOWDEN:
14	is looks like it contains opinions regarding	14	Q. I don't agree. It's part okay.
15	degradation layer?	15	Let me ask it this way.
16	A. It does. I mean these pages, they	16	Dr. Iakovlev, for any of the cases in
17	describe the same features I described in the January	17	Wave 1 have you performed have you concluded your
18	report and other specimens as well.	18	degradation strike that.
19	Q. Okay. And as I understand it,	19	For Ms. Stubblefield or any other cases
20	the is it your opinion that in MS13(a), for example,	20	involving Wave 1 plaintiffs, have you completed your
21	that the degradation bark takes up histologic dyes?	21	experiment where you were attempting to intentionally
22	A. That is correct.	22	oxidize polypropylene to see if it would take up
23	Q. To give it its purple color; is	23	histologic dyes?
24	that right?	24	A. That experiment was not required to
	Page 63		Page 65
1	A. That is correct.	1	detect degradation layer for any of these cases. It's
2	Q. And if I understand your strike		
			done for completely different purpose.
3	that.	2 3	done for completely different purpose. O. Have you completed it?
3 4	that. As I understand it, your opinion is that	3	Q. Have you completed it?
4	As I understand it, your opinion is that	3 4	Q. Have you completed it?A. No, I have not completed it yet.
	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer	3	Q. Have you completed it?A. No, I have not completed it yet.Q. Do you plan to offer any opinions
4 5	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer layer is oxidized?	3 4 5	Q. Have you completed it?A. No, I have not completed it yet.Q. Do you plan to offer any opinions at trial regarding that experiment?
4 5 6	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer layer is oxidized? A. Well, it takes up the dye because	3 4 5 6	 Q. Have you completed it? A. No, I have not completed it yet. Q. Do you plan to offer any opinions at trial regarding that experiment? A. For Ms. Stubblefield?
4 5 6 7	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer layer is oxidized?	3 4 5 6 7	Q. Have you completed it?A. No, I have not completed it yet.Q. Do you plan to offer any opinions at trial regarding that experiment?
4 5 6 7 8	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer layer is oxidized? A. Well, it takes up the dye because it is not solid any more. So there is some micro or	3 4 5 6 7 8	Q. Have you completed it? A. No, I have not completed it yet. Q. Do you plan to offer any opinions at trial regarding that experiment? A. For Ms. Stubblefield? Q. Yeah, for Ms. Stubblefield.
4 5 6 7 8 9	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer layer is oxidized? A. Well, it takes up the dye because it is not solid any more. So there is some micro or nanopores and nanocavities which can absorb the dye.	3 4 5 6 7 8 9	Q. Have you completed it? A. No, I have not completed it yet. Q. Do you plan to offer any opinions at trial regarding that experiment? A. For Ms. Stubblefield? Q. Yeah, for Ms. Stubblefield. A. No. For Ms. Stubblefield I will not use it. As I said, it's not required. And it's
4 5 6 7 8 9	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer layer is oxidized? A. Well, it takes up the dye because it is not solid any more. So there is some micro or nanopores and nanocavities which can absorb the dye. That's why it takes up the dye.	3 4 5 6 7 8 9	Q. Have you completed it? A. No, I have not completed it yet. Q. Do you plan to offer any opinions at trial regarding that experiment? A. For Ms. Stubblefield? Q. Yeah, for Ms. Stubblefield. A. No. For Ms. Stubblefield I will
4 5 6 7 8 9 10	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer layer is oxidized? A. Well, it takes up the dye because it is not solid any more. So there is some micro or nanopores and nanocavities which can absorb the dye. That's why it takes up the dye. Q. Okay. You've previously testified	3 4 5 6 7 8 9 10	Q. Have you completed it? A. No, I have not completed it yet. Q. Do you plan to offer any opinions at trial regarding that experiment? A. For Ms. Stubblefield? Q. Yeah, for Ms. Stubblefield. A. No. For Ms. Stubblefield I will not use it. As I said, it's not required. And it's not needed. I'll do it for different purpose. That
4 5 6 7 8 9 10 11	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer layer is oxidized? A. Well, it takes up the dye because it is not solid any more. So there is some micro or nanopores and nanocavities which can absorb the dye. That's why it takes up the dye. Q. Okay. You've previously testified that you were you undertook an experiment to	3 4 5 6 7 8 9 10 11	Q. Have you completed it? A. No, I have not completed it yet. Q. Do you plan to offer any opinions at trial regarding that experiment? A. For Ms. Stubblefield? Q. Yeah, for Ms. Stubblefield. A. No. For Ms. Stubblefield I will not use it. As I said, it's not required. And it's not needed. I'll do it for different purpose. That experiment is mainly to show that the model of in vitro
4 5 6 7 8 9 10 11 12	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer layer is oxidized? A. Well, it takes up the dye because it is not solid any more. So there is some micro or nanopores and nanocavities which can absorb the dye. That's why it takes up the dye. Q. Okay. You've previously testified that you were you undertook an experiment to intentionally oxidize polypropylene and see whether it	3 4 5 6 7 8 9 10 11 12 13	Q. Have you completed it? A. No, I have not completed it yet. Q. Do you plan to offer any opinions at trial regarding that experiment? A. For Ms. Stubblefield? Q. Yeah, for Ms. Stubblefield. A. No. For Ms. Stubblefield I will not use it. As I said, it's not required. And it's not needed. I'll do it for different purpose. That experiment is mainly to show that the model of in vitro degradation which can simulate in vivo degradation is
4 5 6 7 8 9 10 11 12 13	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer layer is oxidized? A. Well, it takes up the dye because it is not solid any more. So there is some micro or nanopores and nanocavities which can absorb the dye. That's why it takes up the dye. Q. Okay. You've previously testified that you were you undertook an experiment to intentionally oxidize polypropylene and see whether it takes up histologic stain. Do you recall that?	3 4 5 6 7 8 9 10 11 12 13 14	Q. Have you completed it? A. No, I have not completed it yet. Q. Do you plan to offer any opinions at trial regarding that experiment? A. For Ms. Stubblefield? Q. Yeah, for Ms. Stubblefield. A. No. For Ms. Stubblefield I will not use it. As I said, it's not required. And it's not needed. I'll do it for different purpose. That experiment is mainly to show that the model of in vitro degradation which can simulate in vivo degradation is usable. It's more of a testing of the model rather
4 5 6 7 8 9 10 11 12 13 14	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer layer is oxidized? A. Well, it takes up the dye because it is not solid any more. So there is some micro or nanopores and nanocavities which can absorb the dye. That's why it takes up the dye. Q. Okay. You've previously testified that you were you undertook an experiment to intentionally oxidize polypropylene and see whether it takes up histologic stain. Do you recall that? A. You mean from the general opinions?	3 4 5 6 7 8 9 10 11 12 13 14	Q. Have you completed it? A. No, I have not completed it yet. Q. Do you plan to offer any opinions at trial regarding that experiment? A. For Ms. Stubblefield? Q. Yeah, for Ms. Stubblefield. A. No. For Ms. Stubblefield I will not use it. As I said, it's not required. And it's not needed. I'll do it for different purpose. That experiment is mainly to show that the model of in vitro degradation which can simulate in vivo degradation is usable. It's more of a testing of the model rather than confirming the degradation.
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4 5 6 7 8 9 10 11 12 13 14 15 16	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer layer is oxidized? A. Well, it takes up the dye because it is not solid any more. So there is some micro or nanopores and nanocavities which can absorb the dye. That's why it takes up the dye. Q. Okay. You've previously testified that you were you undertook an experiment to intentionally oxidize polypropylene and see whether it takes up histologic stain. Do you recall that? A. You mean from the general opinions? Q. Do you recall that? A. The discussion? Or the experiment?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Have you completed it? A. No, I have not completed it yet. Q. Do you plan to offer any opinions at trial regarding that experiment? A. For Ms. Stubblefield? Q. Yeah, for Ms. Stubblefield. A. No. For Ms. Stubblefield I will not use it. As I said, it's not required. And it's not needed. I'll do it for different purpose. That experiment is mainly to show that the model of in vitro degradation which can simulate in vivo degradation is usable. It's more of a testing of the model rather than confirming the degradation. Q. Dr. Iakovlev, on page 13 of your report you have, under the polypropylene degradation
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer layer is oxidized? A. Well, it takes up the dye because it is not solid any more. So there is some micro or nanopores and nanocavities which can absorb the dye. That's why it takes up the dye. Q. Okay. You've previously testified that you were you undertook an experiment to intentionally oxidize polypropylene and see whether it takes up histologic stain. Do you recall that? A. You mean from the general opinions? Q. Do you recall that? A. The discussion? Or the experiment? Q. The experiment. A. I do recall.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Have you completed it? A. No, I have not completed it yet. Q. Do you plan to offer any opinions at trial regarding that experiment? A. For Ms. Stubblefield? Q. Yeah, for Ms. Stubblefield. A. No. For Ms. Stubblefield I will not use it. As I said, it's not required. And it's not needed. I'll do it for different purpose. That experiment is mainly to show that the model of in vitro degradation which can simulate in vivo degradation is usable. It's more of a testing of the model rather than confirming the degradation. Q. Dr. Iakovlev, on page 13 of your report you have, under the polypropylene degradation section, a paragraph that begins, "In Ms. Stubblefield's case, the mesh also fragmented in
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer layer is oxidized? A. Well, it takes up the dye because it is not solid any more. So there is some micro or nanopores and nanocavities which can absorb the dye. That's why it takes up the dye. Q. Okay. You've previously testified that you were you undertook an experiment to intentionally oxidize polypropylene and see whether it takes up histologic stain. Do you recall that? A. You mean from the general opinions? Q. Do you recall that? A. The discussion? Or the experiment? Q. The experiment. A. I do recall. Q. Okay. Have you concluded that	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Have you completed it? A. No, I have not completed it yet. Q. Do you plan to offer any opinions at trial regarding that experiment? A. For Ms. Stubblefield? Q. Yeah, for Ms. Stubblefield. A. No. For Ms. Stubblefield I will not use it. As I said, it's not required. And it's not needed. I'll do it for different purpose. That experiment is mainly to show that the model of in vitro degradation which can simulate in vivo degradation is usable. It's more of a testing of the model rather than confirming the degradation. Q. Dr. Iakovlev, on page 13 of your report you have, under the polypropylene degradation section, a paragraph that begins, "In Ms. Stubblefield's case, the mesh also fragmented in the body." Do you see that?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	As I understand it, your opinion is that the reason that it uptakes the dye is that the outer layer is oxidized? A. Well, it takes up the dye because it is not solid any more. So there is some micro or nanopores and nanocavities which can absorb the dye. That's why it takes up the dye. Q. Okay. You've previously testified that you were you undertook an experiment to intentionally oxidize polypropylene and see whether it takes up histologic stain. Do you recall that? A. You mean from the general opinions? Q. Do you recall that? A. The discussion? Or the experiment? Q. The experiment. A. I do recall. Q. Okay. Have you concluded that experiment yet?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Have you completed it? A. No, I have not completed it yet. Q. Do you plan to offer any opinions at trial regarding that experiment? A. For Ms. Stubblefield? Q. Yeah, for Ms. Stubblefield. A. No. For Ms. Stubblefield I will not use it. As I said, it's not required. And it's not needed. I'll do it for different purpose. That experiment is mainly to show that the model of in vitro degradation which can simulate in vivo degradation is usable. It's more of a testing of the model rather than confirming the degradation. Q. Dr. Iakovlev, on page 13 of your report you have, under the polypropylene degradation section, a paragraph that begins, "In Ms. Stubblefield's case, the mesh also fragmented in the body." Do you see that? A. I do.

17 (Pages 62 to 65)

Page 66 Page 68 1 intermediate excision, which was in 2007, one of 1 And it's clear -- I will use green 2 2 marker and outline the edges of the degradation bark descriptions which was given in January, 2007, was this 3 3 material, because of its loose weave, fragmented which formed on the surface of these fragments. And 4 4 the degradation bark is also birefringent on next page easily. So there is description of fragmentation 5 5 during that excision date which predated the excision 36, so it behaves exactly the same way as degradation 6 6 bark which is formed on intact fibers or nonfragmented of the specimen I received. 7 7 Now, if we go back to the images fibers. 8 beginning with MS17(a), there's a series of images 8 And if we check, the excision in 2007 9 which shows fragments of polypropylene. Some of these 9 occurred approximately two years after implementation. 10 10 fragments are irregular, and they contain blue fiber --So by two years, the bark was of sufficient thickness 11 blue granules within or inside the fragments, and some 11 to be visible and to peel off the nondegraded core. 12 12 of the fragments are rectangular. And they correlate Then when the nondegraded core fragments were left in 13 with scales of the degradation bark. 13 2007 by the excision I received specimen of, which was 14 14 So what happened during the excision in another two years after the intermediate excision, 15 2007, some of the chips or small fragments of the mesh 15 these fragments which I circled on page 35, they were 16 were cut off. And when the mesh was cut off, some of 16 exposed to the body environment long enough to form 17 17 the bark fragments peeled off and formed this their own degradation bark. 18 18 scale-type fragments in the tissue. Q. The fragments in MS18(a), how large 19 So we have a combination of portions of 19 are those? 20 20 A. Well, I don't know if it's a whole the mesh fibers which were cut off from the nondegraded 21 core. For example, in picture MS17(a) on page 33, as 21 fragment here or just like a tip of the iceberg. It's 22 22 circled with green marker, that specific fragment was hard to say. What I can say is what the cross section 23 23 from the nondegraded core. And it's together with the, or estimate the cross section, longest diameter what we 24 in the same sort of cluster of fragments with the 24 see in this section. Page 67 Page 69 1 scales of the bark. 1 I would estimate it is approximately 2 So what happened, both the degraded bark 2 50-microns long. Maybe less, maybe 30, somewhere 3 was fragmented during the excision and the nondegraded 3 between 30 and 50. 4 core was also fragmented to a degree, with scissors or 4 Q. And how wide is it? A. 15 microns. Again, it's rough 5 with other tools. And we see the combination of this 5 6 6 too. estimate. 7 7 And if we flip the page to page 34, we So overall when there is a cluster of 8 8 can see the appearance of these fragments in polarized these fragments, it's a combination of scales of the 9 9 light. For example, the fragment which has distinct bark and fragments of nondegraded core, which was 10 10 rectangular shape -- I'm circling it with blue nondegraded in 2007. By 2009 there is a degradation 11 11 marker -- also shows transverse cracks. So this is bark in each of those fragments. 12 typical for degradation bark, where the particle of 12 Q. And what's the significance, if 13 nondegraded core does not show -- and I also circled it 13 any, of this to your opinion? 14 with blue marker but it's difficult to see because it's 14 A. Well, it's all just consistent with 15 dark background. It does not have any cracking. It's 15 previously-described findings regarding degradation 16 solid, because it's not degraded -- at least it's not 16 bark. It's fragile. It cracks. Cracks and then forms 17 degraded in the middle. 17 this scale-like particles which were deposited in the 18 What's interesting if we flip the page 18 tissue. Also it forms on any polypropylene of any 19 19 to page 35, image MS18(a) shows another two or three shape, either cylindrical shape of intact fibers or 20 20 particles of the nondegraded core which were cut off fibers like this depicted in MS18(a). 21 21 the mesh during previous excision. And now we can see Q. And what's your basis for the 22 actually that these fragments of the nondegraded core 22 opinion that portions of what we see in these figures 23 were left in the body at that time formed their own 23 are fragments of bark rather than pieces of mesh that

18 (Pages 66 to 69)

are dislodged during cutting at the excision procedure?

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24

degradation bark.

Page 70 Page 72 1 A. Shape. Shape and absence of -- or 1 Q. Have you ever done a controlled 2 relative absence of the blue granules, because when 2 experiment where you take a pristine Prolene soft mesh 3 3 material degrades, blue granules degrade as well. So and cut it and see what, if any, particles come off the 4 if we see rectangular shape, which represents cross 4 5 5 section of a scale, and relative lack of the blue A. I'm not sure what would be the 6 6 purpose of this experiment. That -- does it imply that granule, it means that the material was degraded 7 7 it is impossible to make smaller fragments? Sometimes before, formed degradation bark, and then was 8 fragmented further and was left in the body. 8 I cut the mesh fibers and I can see what fragments are 9 9 left or the crushed ends of the mesh. Q. How do you rule out the absence, 10 10 I examined the meshes. When the that the absence of blue granules was due to the fact 11 that Prolene soft has both blue and clear filaments? 11 pristine mesh is cut and I see the edges, and I can see 12 12 A. Some of it can be because of the clearly, especially in the places where short segment 13 13 of the fiber is still attached, can see it's kind of clear filaments. Some of it, you -- we can actually 14 14 see some residual blue granules in some of the loose. If it's outside of the body, if it's very small 15 fragments. It depends on what fiber they are coming 15 fragment, it will just snap off and become dislodged. 16 from. If they are coming from clear fibers, there was 16 So I've seen larger portions of the mesh 17 17 no blue granules at the beginning. fibers still attached to the mesh after the cutting. 18 18 Q. And my question was whether you For example, on page 37, there's few 19 19 have done a controlled experiment where you take a scales of the bark forming this curvilinear scales, and 20 20 we see the blue granules within them. So in that pristine Prolene soft mesh, cut it, and determine what 21 specific area, a blue fiber was crushed, and then the 21 particles, if any, come off the mesh. 22 22 bark peeled off and left these scales in the area. A. So my answer would be I did examine 23 23 Q. And what's your basis for the meshes after cutting them with scissors, and I did see 24 opinion that this all occurred in the 2007 surgery? 24 some larger portions of the fibers left on the mesh. Page 71 Page 73 1 A. Just analysis of the records. This They were loose. They were loosely attached so they 1 2 occurred sometime before the excision in 2009. So 2 fall out easily because they are not -- you need a long 3 there was an event sometime between implantation and 3 fiber which is being held in the weave pattern of the 4 excision in 2009 which crushed the fibers to produce 4 5 5 first of all scales of bark and, at the same time, Q. Did you then take those pieces and 6 6 fragment the nondegraded core. And the only event I process them through tissue processing to analyze their 7 7 can see in the records is excision in 2007. shape and the presence of degradation bark? 8 8 A. Well, I can see the shape in the Q. Did you consider the fact that the 9 9 mesh is cut during placement? microscope because when I examined it, I examine it in 10 10 A. But during the placement there is the microscope without embedding. 11 11 no degradation layer. Wouldn't produce this Q. And have you ever -- first off, do 12 perfectly rectangular scales or cross sections of 12 you know what tool the implanting surgeon used to cut 13 the scales. 13 the mesh in this case? 14 I think we had one case -- I don't know 14 A. We can check with the excision 15 if it was you during the deposition -- where there were 15 record from 2007. 16 some fragments which were triangular and some irregular 16 MR. ZIMMERMAN: Exhibit 3. I'm sorry. 17 shape. So when the fragment is triangular shape, it 17 THE DEPONENT: Is it 2007? 18 can be coming -- or can be embedded in the tissue 18 MR. ZIMMERMAN: Five. 19 19 during implantation. If it's rectilinear and if it's THE DEPONENT: So where is 2007? Here. 20 20 BY MR. SNOWDEN: consistent with the bark, the only way to produce this 21 21 is to leave the mesh in the body long enough so the Q. I'm sorry. My first question is: 22 bark is formed and then crush the fibers, produce those Do you know what tool the surgeon who implanted the

19 (Pages 70 to 73)

mesh to be Exhibit 3, what tool he used to form the

mesh into a six inch by half inch sling?

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scales, and leave it in the body again for some time so

there will be vital reaction around it.

Page 74 Page 76 1 A. Scissors. Does not say exactly 1 tool. 2 which tool, but most likely scissors. 2 Q. And motion to strike that answer as 3 3 Q. So sitting here today, you won't nonresponsive. 4 know whether you have replicated the same type of 4 Regarding the January 4th, 2007, 5 5 cutting in your lab as the surgeon implanting the mesh procedure, do you know what tool was used to cut the 6 6 used in forming the sling in this case? mesh? 7 7 A. But I'm not using this experiment. A. The record describes that the 8 I do not need this experiment to formulate my opinions. 8 material was fragmented easily, but it does not say 9 I arrive to my opinions examining the specimen. The 9 exactly what tool was used at that time. Whatever tool 10 effect of what happened. I'm not -- I don't need an 10 was used, it fragmented the mesh. 11 experiment to actually determine that these are 11 Q. So regarding the January 4th, 2007, 12 12 fragments of polypropylene. Some of it is completely procedure where mesh was removed, you do not know 13 degraded; some of it is partially still containing 13 whether you have performed an experiment in your lab 14 14 nondegraded core. I can see it in the images, and I where you have cut a pristine mesh using the same tool 15 15 saw it in the specimen itself. as that used to cut the mesh in this procedure to 16 Q. And that wasn't my question. My 16 determine the shape or presence of any particles; is question was: Sitting here today, you do not know 17 17 that correct? 18 18 whether you employed the same type of cutting of a mesh MR. ZIMMERMAN: Objection. 19 in your lab as the implanting physician used when he 19 THE DEPONENT: It's not what I do. I 20 formed the Prolene soft into a sling in this case? 20 don't do specific experiments as for any other 21 A. As I said, I did not need this 21 specimens. What I do, I describe the histological 22 22 experiment. I did not perform it. feature, what is abnormal in the tissue. In this case, 23 23 Q. Okay. I described this particle and it's unequivocal. There 24 A. Because I'm describing the effect 24 are particles of the polypropylene. Some of them are Page 75 Page 77 1 of it, not specifically how it was formed. I can see rectangular, describing -- or consistent with scales, 2 clearly that these are particles of polypropylene. 2 and some of them are irregular, larger particles. 3 3 Q. And then you would agree that you So my opinions are based on the 4 4 have not performed an experiment where you use the same examination and analysis of the specimen itself, not on 5 cutting method on a pristine Prolene soft mesh to 5 additional experimentation. 6 BY MR. SNOWDEN: 6 determine the shape or presence of any particles that 7 7 would come off of that mesh? Q. Doctor with -- strike that. 8 8 A. I don't understand how would that Sitting here today, you would not be 9 experience -- experiment contribute to the opinions. 9 able to tell the ladies and gentlemen of the jury 10 We already observed that there are particles in the 10 whether or not you performed a control experiment using 11 11 the same method of cutting a pristine mesh as that used 12 Q. And that's not my question, Doctor. 12 by the doctor who cut the mesh in the January 4th, 13 13 Would you agree that you have not performed an 2007, procedure, correct? 14 14 experiment where you use the same cutting method on a MR. ZIMMERMAN: Objection. Answer if 15 pristine Prolene soft mesh to determine the shape or 15 you can. 16 presence of any particles that would come off the mesh 16 THE DEPONENT: So the answer would be 17 as a result? 17 that, as for all diagnostic specimens, we do not 18 A. I did not need that experiment and 18 require a control. We assess the specimens for the 19 19 difference what is expected in the tissue, either I did not perform it. 20 Q. And regarding the January 4th, 20 normal tissue or altered to a degree. 21 2007, procedure where mesh was removed, do you know 21 So in this case, what I can use as a 22 22 what tool was used to cut the mesh? description of what is expected would be several 23 A. All I can say, whatever tool was 23 hundred of the specimens I examined of explanted 24 24 used, the mesh was fragmented under the use of that measures. This is the first time I see such an extent

20 (Pages 74 to 77)

	Page 78		Page 80
1	of scales of the bark in the tissue. It's not it	1	observation of multiple particles in the tissue,
2	was not expected. This wasn't somewhat unexpected	2	because, as I said, the finding is not common. It's
3	finding, and it's completely different from other	3	not commonly seen. And the description in the records
4	specimens. And we saw the particles of the measure in	4	is not common as well.
5	the tissue only in the occasional cases.	5	And it correlates logically and
6	BY MR. SNOWDEN:	6	pathophysiologically and it correlates also with my
7	Q. And in all due respect, I'm not	7	understanding of the behavior of polypropylene in the
8	sure whose question you are answering.	8	body and formation of the bark and behavior of the
9	Doctor, would you be able to tell the	9	bark.
10	ladies and gentlemen of the jury whether or not you	10	Q. Why do you well first off, did
11	performed a control experiment using the same method of		the physician here during this surgery mention
12	cutting a pristine mesh as used by the doctor who cut	12	particles coming off the mesh?
13	the mesh in the January 4th, 2007, procedure?	13	A. Fragmented. Fragments.
14	A. I did not need to do an experiment,	14	Q. So is that the same as particle?
15	separate experiment, and that's not what we do as	15	A. Well fragment is a particle.
16	pathologists to do experiment every time we see some	16	Q. Would a one centimeter portion of
17		17	the mesh also be a fragment?
18	features under the microscope. We	18	C
19	Q. And I'm not asking you whether you needed to do it. I'm asking you whether you did such a		A. I don't think the surgeon would
	•	19	describe one centimeter as a fragment and fragmented
20	controlled experiment.	20	easily.
21	A. That's why I did not do it.	21	Q. Why did you mention loose weave in
22	Q. Okay. So we agree you didn't do	22	relation to fragments? What does that have to
23	it?	23	sorry, strike that.
24	A. I did not require and I did not do	24	If you are correct, why did the doctor
	Page 79		- 01
	2430 77		Page 81
1	it.	1	mention loose weave in regards to particles that you
1 2	it. Q. You have mentioned several times a	2	mention loose weave in regards to particles that you see in your specimen?
	it. Q. You have mentioned several times a statement from the January 4th, 2007, operative note	2	mention loose weave in regards to particles that you see in your specimen?
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21 (Pages 78 to 81)

	Page 82		Page 84
1	the cases at least for Wave 1. I read depositions only	1	A. And wasn't as strong.
2	in very rare occasions where there is significant	2	Q. So what the doctor on January 4th,
3	discrepancy between the records and I need to clarify	3	2007, when he was explanting the mesh and he said this
4	which record is correct.	4	material, because of its loose weave, fragmented
5	BY MR. SNOWDEN:	5	easily, it's your testimony and your opinion he wasn't
6	Q. I'm handing you what is marked as	6	identifying the particles you see under the microscope?
7	Stubblefield 6.	7	A. That is correct, he wouldn't be
8	EXHIBIT NO. 6: Surgical Pathology	8	able to see it. But the fact is that the excision was
9	Report reported on 2007/01/10	9	piecemeal. There were multiple cuts and more
10	BY MR. SNOWDEN:	10	manipulations describes higher risk for fragmentation
11	Q. Doctor, if you take a look at this	11	at microscopic level.
12	surgical pathology report, is it your understanding	12	Q. Okay. And this pathology report,
13	this relates to the mesh removal from January 4th,	13	does it mention the mesh being deformed?
14	2007?	14	A. There is no description of the
15	A. That's correct.	15	configuration of the mesh either way, if it's deformed
16		16	or flat.
17	Q. Okay. And if we go down to the well first off, do you see any mention of particles in	17	Q. In your opinion regarding pain
18	this pathology description?	18	starting on page 12, you have on the third paragraph in
19	A. There is no microscopy. There is	19	that section:
	**	20	
20	only gross description.	21	"There was a foreign body type
21 22	Q. Would you need a microscope to see	22	inflammatory reaction to the mesh.
	the particles?		Additionally, the mesh fragmented at one
23	A. Yes, of those particles I describe,	23	point and introduced collections of
24	they would not be visible without microscope.	24	smaller particles."
	Page 83		Page 85
1	Q. Okay. So the doctor saw the	1	Do you see that?
2	fragments or particles during the surgery but the	2	A. I do.
3	pathologist would need a microscope to see it?	3	Q. You say, "The latter amplified the
4	A. I did not say that the doctor saw	4	burden of foreign body reaction in the tissue." Do you
5			
	fragments. He said it was fragmented easily meaning	5	see that?
6	that he had to do multiple cuts to remove the mesh or	6	see that? A. I do.
	that he had to do multiple cuts to remove the mesh or that he had difficulty removing it in one piece.		see that? A. I do. Q. What role, if any, did the
6	that he had to do multiple cuts to remove the mesh or that he had difficulty removing it in one piece. That's what it means.	6	see that? A. I do. Q. What role, if any, did the collection of particles play in the pain that
6 7	that he had to do multiple cuts to remove the mesh or that he had difficulty removing it in one piece. That's what it means. It does not specifically indicate that	6 7	A. I do. Q. What role, if any, did the collection of particles play in the pain that Ms. Stubblefield experienced?
6 7 8	that he had to do multiple cuts to remove the mesh or that he had difficulty removing it in one piece. That's what it means. It does not specifically indicate that he could see the fragments which were produced during	6 7 8 9	A. I do. Q. What role, if any, did the collection of particles play in the pain that Ms. Stubblefield experienced? A. As with all other features, we
6 7 8 9	that he had to do multiple cuts to remove the mesh or that he had difficulty removing it in one piece. That's what it means. It does not specifically indicate that he could see the fragments which were produced during that procedure because, again, it's microscopic and	6 7 8 9 10 11	A. I do. Q. What role, if any, did the collection of particles play in the pain that Ms. Stubblefield experienced? A. As with all other features, we shouldn't single out one feature and try to connect it
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that he had to do multiple cuts to remove the mesh or that he had difficulty removing it in one piece. That's what it means. It does not specifically indicate that he could see the fragments which were produced during that procedure because, again, it's microscopic and it's in the tissue. Q. So you would agree with me then that the statement that the mesh, because of its loose weave, fragmented easily is consistent with the pathology report showing the mesh was removed in four pieces? A. Yes, it is. Q. Okay. A. It is. So he could not remove it in one piece. He had to do several smaller excisions	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I do. Q. What role, if any, did the collection of particles play in the pain that Ms. Stubblefield experienced? A. As with all other features, we shouldn't single out one feature and try to connect it to a specific symptom. This was all happening at the same time in the same mesh. It definitely didn't reduce the amount of changes. The additional particles increased the amount of foreign body reaction, so they amplified already abnormal finding. Q. How large was the field of particles strike that. Were the particles all in one area in the specimen? A. No. As far as my recollection, there were several fossa of these particles.

22 (Pages 82 to 85)

	Page 86		Page 88
1	slides, I would point where the areas are.	1	bilateral groin pain. Again, it's not clear what it is
2	Q. How significant was the tissue	2	attributed to. And then in 2000 again in 2005 in
3	reaction to the particles that you saw?	3	July, low back pain and suprapubic tenderness, some
4	A. It was quite significant. There	4	description of pain, however, there is no firm
5	was detectable foreign-body type reaction. We can see	5	conclusion yet at the time that the pain is related to
	it in the images. If we go to, for example, page 37,	6	the mesh.
	you can see several macrophages in the area.	7	And then later on in July 2005, it says
8	Q. 100X objective, is that equivalent	8	pain in the mesh area.
	to a thousand times magnification?	9	So about five months after implantation
10	A. That's correct.	10	examination showed or connected pain with the mesh.
11	Q. Every picture you have of the	11	EXHIBIT NO. 7: Progress Notes, dated
12	particles in your report is that a thousand times	12	3/18/05 to 7/8/05
	magnification?	13	BY MR. SNOWDEN:
14	A. It is.	14	Q. All right. I'm handing you what
15	Q. Okay. So you are not able to,	15	has been marked as Stubblefield 7.
16	sitting here today with your report that you have	16	And if you look on the left-hand side,
	provided in this case, show us a picture that sort of	17	it says 3/18/05. Does this correlate with your entry
	shows the extent of any one of these particle fields?	18	on page 2 for March 18th, 2005?
19	A. Not required. Wouldn't contribute	19	A. Yes.
	either way.	20	Q. All right. And I'm just trying to
21	Q. I'm just trying to figure out how	21	figure out this record here. It says, there's a
	large it is. It sounds like I'm not going to be able	22	urinalysis section and just below that it says, "Having
	to do today.	23	a little leakage." Do you see that?
24	A. Well, it wasn't my purpose to	24	A. Uhm-hmm.
	Page 87		Page 89
1	measure it. If, when you ship the slides back to me, I	1	Q. What's that what is that next
	would be able to show the areas and measure them, but I	2	on the next line, what does that say?
	mean since it wasn't my purpose, I did not do it when I	3	A. "P with some movement."
	had the slides.	4	Q. Okay. What's that P mean?
5	Q. Off the record.	5	-
6	OFF THE RECORD AT 10:49		A. Pain. I think I've seen it in
		6	
7		6 7	in other records. So I interpreted it as pain.
_	RESUMING AT 10:52	7	in other records. So I interpreted it as pain. Q. Okay. Is that a common medical
7 8 9	RESUMING AT 10:52 BY MR. SNOWDEN:		in other records. So I interpreted it as pain. Q. Okay. Is that a common medical abbreviation for P for pain?
8 9	RESUMING AT 10:52	7 8	in other records. So I interpreted it as pain. Q. Okay. Is that a common medical abbreviation for P for pain? A. Sometimes it's used.
8 9 10	RESUMING AT 10:52 BY MR. SNOWDEN: Q. Dr. Iakovlev, are you aware strike that. Is it important to your opinion in	7 8 9	in other records. So I interpreted it as pain. Q. Okay. Is that a common medical abbreviation for P for pain? A. Sometimes it's used. Q. Okay. And okay. And then the
8 9 10	RESUMING AT 10:52 BY MR. SNOWDEN: Q. Dr. Iakovlev, are you aware	7 8 9 10	in other records. So I interpreted it as pain. Q. Okay. Is that a common medical abbreviation for P for pain? A. Sometimes it's used.
8 9 10 11 12	RESUMING AT 10:52 BY MR. SNOWDEN: Q. Dr. Iakovlev, are you aware strike that. Is it important to your opinion in this well, strike that.	7 8 9 10 11	in other records. So I interpreted it as pain. Q. Okay. Is that a common medical abbreviation for P for pain? A. Sometimes it's used. Q. Okay. And okay. And then the next line says, "Well healed otherwise," right?
8 9 10 11 12 13	RESUMING AT 10:52 BY MR. SNOWDEN: Q. Dr. Iakovlev, are you aware strike that. Is it important to your opinion in this well, strike that. Do you have any opinions in this case	7 8 9 10 11 12	in other records. So I interpreted it as pain. Q. Okay. Is that a common medical abbreviation for P for pain? A. Sometimes it's used. Q. Okay. And okay. And then the next line says, "Well healed otherwise," right? A. Yes.
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8 9 10 11 12 13 14 15 16	RESUMING AT 10:52 BY MR. SNOWDEN: Q. Dr. Iakovlev, are you aware strike that. Is it important to your opinion in this well, strike that. Do you have any opinions in this case regarding when Ms. Stubblefield's pain, that's attributed to mesh, began? A. This question is best answered going through the records. So there is if we go	7 8 9 10 11 12 13 14 15	in other records. So I interpreted it as pain. Q. Okay. Is that a common medical abbreviation for P for pain? A. Sometimes it's used. Q. Okay. And okay. And then the next line says, "Well healed otherwise," right? A. Yes. Q. I'm done with that one. You can put it aside. Do you know do you have an opinion in this case regarding whether, if at all,
8 9 10 11 12 13 14 15 16 17	RESUMING AT 10:52 BY MR. SNOWDEN: Q. Dr. Iakovlev, are you aware strike that. Is it important to your opinion in this well, strike that. Do you have any opinions in this case regarding when Ms. Stubblefield's pain, that's attributed to mesh, began? A. This question is best answered going through the records. So there is if we go into the records and implantation is February 2005, and	7 8 9 10 11 12 13 14 15 16	in other records. So I interpreted it as pain. Q. Okay. Is that a common medical abbreviation for P for pain? A. Sometimes it's used. Q. Okay. And okay. And then the next line says, "Well healed otherwise," right? A. Yes. Q. I'm done with that one. You can put it aside. Do you know do you have an opinion in this case regarding whether, if at all, Ms. Stubblefield's pain changed throughout the course of her treatment?
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8 9 10 11 12 13 14 15 16 17 18 19 20	RESUMING AT 10:52 BY MR. SNOWDEN: Q. Dr. Iakovlev, are you aware strike that. Is it important to your opinion in this well, strike that. Do you have any opinions in this case regarding when Ms. Stubblefield's pain, that's attributed to mesh, began? A. This question is best answered going through the records. So there is if we go into the records and implantation is February 2005, and then in March of 2005, which is a postoperative period, there is a description of pain with some movement	7 8 9 10 11 12 13 14 15 16 17 18	in other records. So I interpreted it as pain. Q. Okay. Is that a common medical abbreviation for P for pain? A. Sometimes it's used. Q. Okay. And okay. And then the next line says, "Well healed otherwise," right? A. Yes. Q. I'm done with that one. You can put it aside. Do you know do you have an opinion in this case regarding whether, if at all, Ms. Stubblefield's pain changed throughout the course of her treatment? MR. ZIMMERMAN: Objection, form. Answer
8 9 10 11 12 13 14 15 16 17 18 19 20 21	RESUMING AT 10:52 BY MR. SNOWDEN: Q. Dr. Iakovlev, are you aware strike that. Is it important to your opinion in this well, strike that. Do you have any opinions in this case regarding when Ms. Stubblefield's pain, that's attributed to mesh, began? A. This question is best answered going through the records. So there is if we go into the records and implantation is February 2005, and then in March of 2005, which is a postoperative period, there is a description of pain with some movement "otherwise healed well." So it's not clear if that	7 8 9 10 11 12 13 14 15 16 17 18 19 20	in other records. So I interpreted it as pain. Q. Okay. Is that a common medical abbreviation for P for pain? A. Sometimes it's used. Q. Okay. And okay. And then the next line says, "Well healed otherwise," right? A. Yes. Q. I'm done with that one. You can put it aside. Do you know do you have an opinion in this case regarding whether, if at all, Ms. Stubblefield's pain changed throughout the course of her treatment? MR. ZIMMERMAN: Objection, form. Answer if you can.
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23 (Pages 86 to 89)

	Page 90		Page 92
1	mesh implant. So it indicates that at that time there	1	are working up their differential diagnosis. They make
2	is residual pain or there is some reduction of the pain	2	decision to excise mesh or to treat with specific
3	after nerve blocks.	3	interventions like nerve blocks, but especially
4	So at least at that time there was a	4	excision of the mesh. If there is change of the
5	change in the pain.	5	symptoms after mesh excision, it just gives an extra
6	BY MR. SNOWDEN:	6	evidence that symptoms pre-excision were caused by the
7	Q. Okay. Any other changes to the	7	mesh. Because the mesh was excised, symptoms were
8	pain?	8	relieved, therefore, symptoms before the excision were
9	MR. ZIMMERMAN: Same objection. Answer	9	caused by the mesh.
10	if you can.	10	Q. Does it matter to your differential
11	THE DEPONENT: So again another entry on	11	diagnosis in this case strike that.
12	page 7, March 2011:	12	Would it be important to your
13	"She went for three years with	13	differential diagnosis in this case to know that the
14	constant bilateral groin, suprapubic,	14	plaintiff later reported to healthcare providers that
15	and vaginal pain which she describes as	15	the surgeries had not addressed her pain?
16	'burning' like 'needles,' and 'jabbing	16	MR. ZIMMERMAN: Objection. Answer if
17	pain'. She was treated by Dr. Zimmerman	17	you can.
18	with excision of mesh and states that	18	THE DEPONENT: As I said, I'm not doing
19	after the excision, the vaginal and	19	clinical differential diagnosis. I just see what is in
20	midline pain went away. She is still	20	the records. I'm doing my morphological differential
21	stuck with the [bilateral lower	21	diagnosis.
22	quadrant] pain."	22	BY MR. SNOWDEN:
23	So the location changed after the	23	Q. What's the difference between a
24	excision. That's another change in the pattern of pain	24	clinical differential diagnosis and a morphological
	Page 91		Page 93
1	again, following treatment procedure.	1	1'.00
_	again, following treatment procedure.		differential diagnosis /
2	Again another entry June 2011:		differential diagnosis? A. Clinical differential diagnosis is
2	Again another entry, June, 2011:	2	A. Clinical differential diagnosis is
3	"67 year old female who presents for	2	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking
3 4	"67 year old female who presents for evaluation and management of pelvic	2 3 4	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests,
3 4 5	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few	2	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological
3 4	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis	2 3 4 5	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal
3 4 5 6 7	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic	2 3 4 5 6 7	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue.
3 4 5 6	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic pain due to post-mesh pain syndrome.	2 3 4 5	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue. If clinical differential diagnosis
3 4 5 6 7 8	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic pain due to post-mesh pain syndrome. Partially relieved with nortriptyline,	2 3 4 5 6 7 8	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue. If clinical differential diagnosis narrows the cause of specific symptoms to specific area
3 4 5 6 7 8 9	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic pain due to post-mesh pain syndrome.	2 3 4 5 6 7 8	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue. If clinical differential diagnosis narrows the cause of specific symptoms to specific area and then it's being excised, I can look at the tissue
3 4 5 6 7 8 9	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic pain due to post-mesh pain syndrome. Partially relieved with nortriptyline, but patient could not tolerate it due to side effects."	2 3 4 5 6 7 8 9	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue. If clinical differential diagnosis narrows the cause of specific symptoms to specific area and then it's being excised, I can look at the tissue
3 4 5 6 7 8 9 10	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic pain due to post-mesh pain syndrome. Partially relieved with nortriptyline, but patient could not tolerate it due to	2 3 4 5 6 7 8 9 10	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue. If clinical differential diagnosis narrows the cause of specific symptoms to specific area and then it's being excised, I can look at the tissue in the microscope and I can say what is abnormal in the
3 4 5 6 7 8 9 10 11	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic pain due to post-mesh pain syndrome. Partially relieved with nortriptyline, but patient could not tolerate it due to side effects." So, again, there was improvement of pain	2 3 4 5 6 7 8 9 10 11 12	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue. If clinical differential diagnosis narrows the cause of specific symptoms to specific area and then it's being excised, I can look at the tissue in the microscope and I can say what is abnormal in the tissue. So then I can differentiate, is it natural
3 4 5 6 7 8 9 10 11 12 13	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic pain due to post-mesh pain syndrome. Partially relieved with nortriptyline, but patient could not tolerate it due to side effects." So, again, there was improvement of pain on medication, but patient could not tolerate the medication.	2 3 4 5 6 7 8 9 10 11 12 13	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue. If clinical differential diagnosis narrows the cause of specific symptoms to specific area and then it's being excised, I can look at the tissue in the microscope and I can say what is abnormal in the tissue. So then I can differentiate, is it natural disease like a tumor? Is it a foreign body? And what
3 4 5 6 7 8 9 10 11 12 13 14	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic pain due to post-mesh pain syndrome. Partially relieved with nortriptyline, but patient could not tolerate it due to side effects." So, again, there was improvement of pain on medication, but patient could not tolerate the	2 3 4 5 6 7 8 9 10 11 12 13 14	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue. If clinical differential diagnosis narrows the cause of specific symptoms to specific area and then it's being excised, I can look at the tissue in the microscope and I can say what is abnormal in the tissue. So then I can differentiate, is it natural disease like a tumor? Is it a foreign body? And what are the changes related to the foreign body? And then
3 4 5 6 7 8 9 10 11 12 13 14 15	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic pain due to post-mesh pain syndrome. Partially relieved with nortriptyline, but patient could not tolerate it due to side effects." So, again, there was improvement of pain on medication, but patient could not tolerate the medication. But there is a change in pain, again,	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue. If clinical differential diagnosis narrows the cause of specific symptoms to specific area and then it's being excised, I can look at the tissue in the microscope and I can say what is abnormal in the tissue. So then I can differentiate, is it natural disease like a tumor? Is it a foreign body? And what are the changes related to the foreign body? And then I can complete the diagnostic process which started
3 4 5 6 7 8 9 10 11 12 13 14 15	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic pain due to post-mesh pain syndrome. Partially relieved with nortriptyline, but patient could not tolerate it due to side effects." So, again, there was improvement of pain on medication, but patient could not tolerate the medication. But there is a change in pain, again, after treatment.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue. If clinical differential diagnosis narrows the cause of specific symptoms to specific area and then it's being excised, I can look at the tissue in the microscope and I can say what is abnormal in the tissue. So then I can differentiate, is it natural disease like a tumor? Is it a foreign body? And what are the changes related to the foreign body? And then I can complete the diagnostic process which started with clinical differential diagnosis.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic pain due to post-mesh pain syndrome. Partially relieved with nortriptyline, but patient could not tolerate it due to side effects." So, again, there was improvement of pain on medication, but patient could not tolerate the medication. But there is a change in pain, again, after treatment. BY MR. SNOWDEN:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue. If clinical differential diagnosis narrows the cause of specific symptoms to specific area and then it's being excised, I can look at the tissue in the microscope and I can say what is abnormal in the tissue. So then I can differentiate, is it natural disease like a tumor? Is it a foreign body? And what are the changes related to the foreign body? And then I can complete the diagnostic process which started with clinical differential diagnosis. Q. On page 12 of your report under the
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic pain due to post-mesh pain syndrome. Partially relieved with nortriptyline, but patient could not tolerate it due to side effects." So, again, there was improvement of pain on medication, but patient could not tolerate the medication. But there is a change in pain, again, after treatment. BY MR. SNOWDEN: Q. What role, if any, did your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue. If clinical differential diagnosis narrows the cause of specific symptoms to specific area and then it's being excised, I can look at the tissue in the microscope and I can say what is abnormal in the tissue. So then I can differentiate, is it natural disease like a tumor? Is it a foreign body? And what are the changes related to the foreign body? And then I can complete the diagnostic process which started with clinical differential diagnosis. Q. On page 12 of your report under the pain section, the first paragraph you end with "There
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic pain due to post-mesh pain syndrome. Partially relieved with nortriptyline, but patient could not tolerate it due to side effects." So, again, there was improvement of pain on medication, but patient could not tolerate the medication. But there is a change in pain, again, after treatment. BY MR. SNOWDEN: Q. What role, if any, did your evaluation of changes and complaints of pain have on	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue. If clinical differential diagnosis narrows the cause of specific symptoms to specific area and then it's being excised, I can look at the tissue in the microscope and I can say what is abnormal in the tissue. So then I can differentiate, is it natural disease like a tumor? Is it a foreign body? And what are the changes related to the foreign body? And then I can complete the diagnostic process which started with clinical differential diagnosis. Q. On page 12 of your report under the pain section, the first paragraph you end with "There was a relief of symptoms after mesh excision." Do you
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic pain due to post-mesh pain syndrome. Partially relieved with nortriptyline, but patient could not tolerate it due to side effects." So, again, there was improvement of pain on medication, but patient could not tolerate the medication. But there is a change in pain, again, after treatment. BY MR. SNOWDEN: Q. What role, if any, did your evaluation of changes and complaints of pain have on your opinion?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue. If clinical differential diagnosis narrows the cause of specific symptoms to specific area and then it's being excised, I can look at the tissue in the microscope and I can say what is abnormal in the tissue. So then I can differentiate, is it natural disease like a tumor? Is it a foreign body? And what are the changes related to the foreign body? And then I can complete the diagnostic process which started with clinical differential diagnosis. Q. On page 12 of your report under the pain section, the first paragraph you end with "There was a relief of symptoms after mesh excision." Do you see that?
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	"67 year old female who presents for evaluation and management of pelvic pain. Patient was last seen by me a few months ago with the following diagnosis and treatment plan: Chronic neuropathic pain due to post-mesh pain syndrome. Partially relieved with nortriptyline, but patient could not tolerate it due to side effects." So, again, there was improvement of pain on medication, but patient could not tolerate the medication. But there is a change in pain, again, after treatment. BY MR. SNOWDEN: Q. What role, if any, did your evaluation of changes and complaints of pain have on your opinion? A. It's not in my opinion, but I can	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Clinical differential diagnosis is being worked up by clinical investigations, by taking history, by examining the patient, doing some tests, radiological or imaging studies. Morphological differential diagnosis is determining what is abnormal in the excised tissue. If clinical differential diagnosis narrows the cause of specific symptoms to specific area and then it's being excised, I can look at the tissue in the microscope and I can say what is abnormal in the tissue. So then I can differentiate, is it natural disease like a tumor? Is it a foreign body? And what are the changes related to the foreign body? And then I can complete the diagnostic process which started with clinical differential diagnosis. Q. On page 12 of your report under the pain section, the first paragraph you end with "There was a relief of symptoms after mesh excision." Do you see that? A. Yes.

24 (Pages 90 to 93)

	Page 94		Page 96
1	A. It's not required. And this is an	1	is the operative report from the mesh removal surgery
2	extra or additional information in the clinical	2	on that date?
3	records.	3	A. Yes.
4	Q. Are you relying on that fact in	4	Q. Okay. And if we go down to the
5	your opinion in this case?	5	last paragraph in the on this first page, it
6	A. No. I'm relying on the fact that	6	mentions that, "A permanent suture was palpated on the
7	clinical differential diagnosis lead to mesh excision,	7	left side of the fascia penetrating the muscle and the
8	and then my examination of the specimen when, when it	l .	fascia." Do you see that?
9	was removed or what was abnormal in the tissue at the	9	A. Yes, I do.
10	time of removal. And what I see in the tissue is	10	Q. And then it says that "The suture
11	presence of the mesh and tissue reaction to the mesh.	11	was attached to a remnant of the TVT mesh." Do you see
12	Q. Were you provided with records from	12	that?
13	Therapy Works in Winchester, Tennessee, where	13	A. I do.
14	Ms. Stubblefield reported that her surgeries have not	14	Q. And we know what they mean there is
15	helped and was told that there was nothing else they	15	actually the Prolene soft that turned into a sling?
		16	A. Yes.
16	could do for her, in October of 2011?		
17	A. What provider?	17	Q. Okay. Then it continues and it
18	Q. Therapy Works.	18	says:
19	A. I don't remember exact all the	19	"A second suture was located on the
20	records by heart. If it's on the thumb drive, I was	20	right side of the fascia and the
21	provided. If it's not there, then I did not have them.	21	dissection was carried out similarly."
22	Q. In any event, sounds like that	22	Do you see that?
23	would not have been important to your opinion in this	23	A. Sorry. I'm so tired, I barely can
24	case.	24	see.
	D 05	l .	
	Page 95		Page 97
1	MR. ZIMMERMAN: Objection.	1	Page 97 Q. I skipped a sentence about removing
1 2		1 2	
	MR. ZIMMERMAN: Objection.		Q. I skipped a sentence about removing the mesh just so I could focus on the suture. So it
2	MR. ZIMMERMAN: Objection. THE DEPONENT: Just copy what is in the	2	Q. I skipped a sentence about removing
2	MR. ZIMMERMAN: Objection. THE DEPONENT: Just copy what is in the clinical records. At the end of the day the decision	2	Q. I skipped a sentence about removing the mesh just so I could focus on the suture. So it continues, "The mesh was carefully dissected." Do you
2 3 4	MR. ZIMMERMAN: Objection. THE DEPONENT: Just copy what is in the clinical records. At the end of the day the decision was to excise the mesh. BY MR. SNOWDEN:	2 3 4	Q. I skipped a sentence about removing the mesh just so I could focus on the suture. So it continues, "The mesh was carefully dissected." Do you see that sentence?
2 3 4 5	MR. ZIMMERMAN: Objection. THE DEPONENT: Just copy what is in the clinical records. At the end of the day the decision was to excise the mesh. BY MR. SNOWDEN: Q. During the procedure on	2 3 4 5	Q. I skipped a sentence about removing the mesh just so I could focus on the suture. So it continues, "The mesh was carefully dissected." Do you see that sentence? A. Which line from the bottom? Q. We are the line I want to look
2 3 4 5 6	MR. ZIMMERMAN: Objection. THE DEPONENT: Just copy what is in the clinical records. At the end of the day the decision was to excise the mesh. BY MR. SNOWDEN: Q. During the procedure on September 23rd, 2009, was the and that's the	2 3 4 5 6	Q. I skipped a sentence about removing the mesh just so I could focus on the suture. So it continues, "The mesh was carefully dissected." Do you see that sentence? A. Which line from the bottom? Q. We are the line I want to look at is three lines up from the bottom.
2 3 4 5 6 7	MR. ZIMMERMAN: Objection. THE DEPONENT: Just copy what is in the clinical records. At the end of the day the decision was to excise the mesh. BY MR. SNOWDEN: Q. During the procedure on September 23rd, 2009, was the and that's the specimen you have that relates to that procedure,	2 3 4 5 6 7	Q. I skipped a sentence about removing the mesh just so I could focus on the suture. So it continues, "The mesh was carefully dissected." Do you see that sentence? A. Which line from the bottom? Q. We are the line I want to look at is three lines up from the bottom. And it there's a line before it that
2 3 4 5 6 7 8 9	MR. ZIMMERMAN: Objection. THE DEPONENT: Just copy what is in the clinical records. At the end of the day the decision was to excise the mesh. BY MR. SNOWDEN: Q. During the procedure on September 23rd, 2009, was the and that's the specimen you have that relates to that procedure, correct?	2 3 4 5 6 7 8	Q. I skipped a sentence about removing the mesh just so I could focus on the suture. So it continues, "The mesh was carefully dissected." Do you see that sentence? A. Which line from the bottom? Q. We are the line I want to look at is three lines up from the bottom. And it there's a line before it that says the mesh was removed intact. Do you see that?
2 3 4 5 6 7 8	MR. ZIMMERMAN: Objection. THE DEPONENT: Just copy what is in the clinical records. At the end of the day the decision was to excise the mesh. BY MR. SNOWDEN: Q. During the procedure on September 23rd, 2009, was the and that's the specimen you have that relates to that procedure, correct? A. Yes.	2 3 4 5 6 7 8	Q. I skipped a sentence about removing the mesh just so I could focus on the suture. So it continues, "The mesh was carefully dissected." Do you see that sentence? A. Which line from the bottom? Q. We are the line I want to look at is three lines up from the bottom. And it there's a line before it that says the mesh was removed intact. Do you see that? A. Yes, I do.
2 3 4 5 6 7 8 9 10	MR. ZIMMERMAN: Objection. THE DEPONENT: Just copy what is in the clinical records. At the end of the day the decision was to excise the mesh. BY MR. SNOWDEN: Q. During the procedure on September 23rd, 2009, was the and that's the specimen you have that relates to that procedure, correct? A. Yes. Q. Was the mesh the only thing removed	2 3 4 5 6 7 8 9 10	Q. I skipped a sentence about removing the mesh just so I could focus on the suture. So it continues, "The mesh was carefully dissected." Do you see that sentence? A. Which line from the bottom? Q. We are the line I want to look at is three lines up from the bottom. And it there's a line before it that says the mesh was removed intact. Do you see that? A. Yes, I do. Q. The next is, "A second suture was
2 3 4 5 6 7 8 9 10 11	MR. ZIMMERMAN: Objection. THE DEPONENT: Just copy what is in the clinical records. At the end of the day the decision was to excise the mesh. BY MR. SNOWDEN: Q. During the procedure on September 23rd, 2009, was the and that's the specimen you have that relates to that procedure, correct? A. Yes. Q. Was the mesh the only thing removed that day from Ms. Stubblefield?	2 3 4 5 6 7 8 9 10 11	Q. I skipped a sentence about removing the mesh just so I could focus on the suture. So it continues, "The mesh was carefully dissected." Do you see that sentence? A. Which line from the bottom? Q. We are the line I want to look at is three lines up from the bottom. And it there's a line before it that says the mesh was removed intact. Do you see that? A. Yes, I do. Q. The next is, "A second suture was located on the right side of the fascia and the
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	Page 98		Page 100
1	the sutures. If it is the only sutures, if there was	1	A. Well, I can see that, first of all,
2	an additional suture, I cannot say.	2	the clinical descriptions are connecting pain with the
3	Q. And those sutures penetrated the	3	mesh itself, the mesh is being taken out, and initial
4	muscle and the fascia?	4	excision of the mesh in the middle portion alleviated
5	A. So second suture was on the right	5	the symptoms or changed the pattern of symptoms.
6	side of the fascia.	6	Again, at that time sutures were not removed, only the
7	O. Uhm-hmm.	7	mesh was removed. And there was a change in pain.
8	A. Does not say that it penetrated.	8	And when I examined the mesh
9	Q. And the first suture, which was the	9	microscopically, it provides much larger volume of the
10	first sentence I read when we got on to this, it says,	10	foreign material. The extent of tissue damage is much
11	"A permanent suture was palpated on the left side of	11	larger than what we see with the sutures, creates
12	the fascia penetrating the muscle and the fascia." Do	12	larger scar plate that attaches to larger area of
13	you see that?	13	tissues on its way.
14	A. Yes, I do.	14	Q. Is it your opinion that
15	Q. Okay. Did you consider the removal	15	Dr. Zimmerman, when he was completing his differential
16	of these sutures and their placement through fascia and	16	diagnosis, settled on the mesh itself and not the
17	muscle when coming to your clinico-pathologic	17	suture?
18	correlation regarding pain in this case?	18	A. The initial excision wasn't
19	A. So if we go through the records,	19	anywhere close to the sutures. The initial excision
20	July, 2005, pain in the mesh area. Then November 2005	20	was in the mid-portion.
21	pain in the mesh area. Then again, pain is associated	21	Q. When coming to your or when
22	with the mesh itself in October 2007, residual pain on	22	undertaking your clinical pathologic correlation in
23	the anterior side where she had the mesh implant.	23	this case, did you consider what role, if any,
24	Q. October 2007 you would agree she	24	Ms. Stubblefield's use of pain medications and
24		24	
	Page 99		Page 101
1			
	still had the sutures that were removed two years	1	narcotics played on her pain symptoms?
2	later?	2	A. No. This would be a clinical
2 3	later? A. Yes, but the description of the	2	A. No. This would be a clinical question.
2 3 4	later? A. Yes, but the description of the clinician is that, in relation to the mesh not to the	2 3 4	A. No. This would be a clinical question.Q. So you didn't consider that in
2 3 4 5	later? A. Yes, but the description of the clinician is that, in relation to the mesh not to the sutures.	2 3 4 5	A. No. This would be a clinical question. Q. So you didn't consider that in September 2011, Ms. Stubblefield had a narcotics
2 3 4 5 6	later? A. Yes, but the description of the clinician is that, in relation to the mesh not to the sutures. Q. And would the sutures that were	2 3 4 5 6	A. No. This would be a clinical question. Q. So you didn't consider that in September 2011, Ms. Stubblefield had a narcotics overdose resulting in detoxification where she realized
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2 3 4 5 6 7 8	A. Yes, but the description of the clinician is that, in relation to the mesh not to the sutures. Q. And would the sutures that were implanted as tensioning sutures necessarily be associated with the same area as the mesh?	2 3 4 5 6 7 8	A. No. This would be a clinical question. Q. So you didn't consider that in September 2011, Ms. Stubblefield had a narcotics overdose resulting in detoxification where she realized she did not need the narcotic medications because she really did not experience any pain at all despite not
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	Page 102		Page 104
1	EXAMINATION BY MR. ZIMMERMAN:	1	REPORTER'S CERTIFICATE
2	Q. Good evening, Doctor.	2	I, TERRY WOOD, RPR, CSR, Certified
3	A. Good evening.	3	Shorthand Reporter, certify;
4	Q. I just have a few questions for	4	That the foregoing proceedings were
5	you. I am going to introduce myself for the record.	5	taken before me at the time and place therein set
6	My name is Christopher Zimmerman and I'm here on behalf		forth, at which time the witness was put under oath by
7	of the plaintiff. And I just have a couple questions.	7	me;
8	Doctor, it's true that you reached	8	That the testimony of the witness and
9	several opinions in this case, correct?	9	all objections made at the time of the examination were
10	A. Yes.	10	recorded stenographically by me and were thereafter
11	Q. And those opinions are in summary	11	transcribed;
12	form described in the expert report marked as Exhibit	12	That the foregoing is a true and correct
13	1?	13	transcript of my shorthand notes so taken.
14	A. Yes.	14	transcript of my shorthand notes so taken.
15	Q. And did you reach those opinions	15	
16	based on your education, skill, and expertise?	16	
17	A. Yes.	17	PER: TERRY WOOD, RPR, CSR
18	Q. And do you hold those opinions to a	18	REAL-TIME REPORTER
19	reasonable degree of medical certainty?	19	
20	A. Yes, I do.	20	
21	Q. And I know you were asked over the	21	
22	last three hours many questions regarding	22	
23	Ms. Stubblefield. Have any of the questions posed to	23	
24	you today or any of the answers you have given changed	24	
	Page 103		Page 105
1	any of the opinions that you have already expressed in	1	DEPOSITION ERRATA SHEET
2			
	your report?	2	Case Caption: IN RE: ETHICON, INC., PELVIC REPAIR
3	your report? A. No.	2	
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3	A. No.	3	Case Caption: IN RE: ETHICON, INC., PELVIC REPAIR
3 4	A. No. MR. ZIMMERMAN: Those are all the	3 4	Case Caption: IN RE: ETHICON, INC., PELVIC REPAIR SYSTEM PRODUCTS LIABILITY LITIGATION
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